09/555,575

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Trying 3106016892...Open

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LOGINID:SSSPTA1204BXD
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


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 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2  Dec 17   The CA Lexicon available in the CAPLUS and CA files
 NEWS  3  Feb 06   Engineering Information Encompass files have new names
 NEWS  4  Feb 16   TOXLINE no longer being updated
 NEWS  5  Apr 23   Search Derwent WPINDEX by chemical structure
 NEWS  6  Apr 23   PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
 NEWS  7  May 07   DGENE Reload
 NEWS  8  Jun 20   Published patent applications (A1) are now in USPATFULL
 NEWS  9  JUL 13   New SDI alert frequency now available in Derwent's
                   DWPI and DPCI
 NEWS 10  Aug 23   In-process records and more frequent updates now in
                   MEDLINE
 NEWS 11  Aug 23   PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
 NEWS 12  Aug 23   Adis Newsletters (ADISNEWS) now available on STN
 NEWS 13  Sep 17   IMSworld Pharmaceutical Company Directory name change
                   to PHARMASEARCH
 NEWS 14  Oct 09   Korean abstracts now included in Derwent World Patents
                   Index
 NEWS 15  Oct 09   Number of Derwent World Patents Index updates increased
 NEWS 16  Oct 15   Calculated properties now in the REGISTRY/ZREGISTRY File
 NEWS 17  Oct 22   Over 1 million reactions added to CASREACT
 NEWS 18  Oct 22   DGENE GETSIM has been improved
 NEWS 19  Oct 29   AAASD no longer available
 NEWS 20  Nov 19   New Search Capabilities  USPATFULL and USPAT2
 NEWS 21  Nov 19   TOXCENTER(SM) - new toxicology file now available on STN
 NEWS 22  Nov 29   COPPERLIT now available on STN
 NEWS 23  Nov 29   DWPI revisions to NTIS and US Provisional Numbers
 NEWS 24  Nov 30   Files VETU and VETB to have open access
 NEWS 25  Dec 10   WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002
 NEWS 26  Dec 10   DGENE BLAST Homology Search
 NEWS 27  Dec 17   WELDASEARCH now available on STN
 NEWS 28  Dec 17   STANDARDS now available on STN
 NEWS 29  Dec 17   New fields for DPCI
 NEWS 30  Dec 19   CAS Roles modified
 NEWS 31  Dec 19   1907-1946 data and page images added to CA and CAplus

 NEWS EXPRESS  August 15 CURRENT WINDOWS VERSION IS V6.0c,
               CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP),
               AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
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      * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *
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FILE 'HOME' ENTERED AT 16:14:45 ON 21 DEC 2001

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

FILE 'REGISTRY' ENTERED AT 16:14:50 ON 21 DEC 2001
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STRUCTURE FILE UPDATES: 20 DEC 2001 HIGHEST RN 377724-19-1
DICTIONARY FILE UPDATES: 20 DEC 2001 HIGHEST RN 377724-19-1

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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Uploading 09555575.str

L1 STRUCTURE UPLOADED

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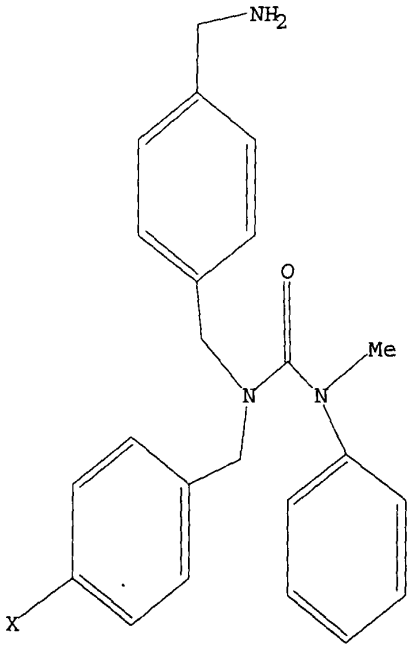
L1 STR



Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED -      3 TO ITERATE

100.0% PROCESSED       3 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            3 TO      163
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 full
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FULL SCREEN SEARCH COMPLETED -    239 TO ITERATE

100.0% PROCESSED     239 ITERATIONS                               1 ANSWERS
SEARCH TIME: 00.00.01

L3            1 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   133.56     133.71

FILE 'CAPLUS' ENTERED AT 16:15:27 ON 21 DEC 2001
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```



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FILE COVERS 1907 - 21 Dec 2001  VOL 135 ISS 26
FILE LAST UPDATED: 20 Dec 2001  (20011220/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

  This file supports REG1stRY for direct browsing and searching of
  all substance data from the REGISTRY file.  Enter HELP FIRST for
  more information.

CAplus now provides online access to patents and literature
covered in CA from 1907 to the present.  Bibliographic
information and abstracts were added in 2001 for over 3.8
million records from 1907-1966.

CAS roles have been modified effective December 16, 2001. Please
check your SDI profiles to see if they need to be revised. For
information on CAS roles, enter HELP ROLES at an arrow prompt or use
the CAS Roles thesaurus (/RL field) in this file.

The CA Lexicon is now available in the Controlled Term (/CT) field.
      HELP LEXICON for full details.
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=> s l3
L4              1 L3

=> d l4 abs ibib hitstr
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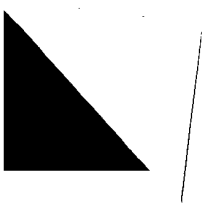
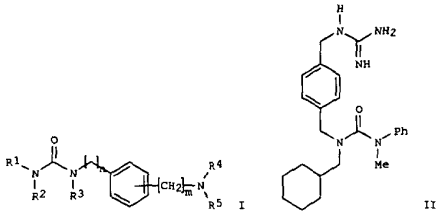


L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS
GI



I II

AB The title compds. [I; m, n = 1-3, and one or more of the hydrogens in such
an alkylene-chain may optionally be substituted by alkyl, alkoxy or OH; or
one or more of the methylene groups may optionally be substituted by a heteroatom such as O, N or S; R1 = H, alkyl, alkenyl, etc.; R2 = H, alkyl,
alkenyl, etc.; R1 and R2 may optionally form a heterocyclic ring; R3 = H, alkyl, alkenyl, etc.; R4, R5 = H, alkyl, alkenyl, etc.; R4 and R5 may optionally form a heterocyclic ring], useful in therapy (no data), in particular in the management of pain, and also in treating gastrointestinal disorders, spinal injuries, and disorders of sympathetic nervous system, and, when isotopically labeled, as diagnostic agents, were
prepd. E.g., a multi-step synthesis of II, starting with p-xylylenediamine, was given.

ACCESSION NUMBER: 1999:819338 CAPLUS
DOCUMENT NUMBER: 132:49803
TITLE: Preparation of 1-(N-substituted)aminomethyl-4-(or 3-)-guanidinomethylbenzenes useful in the management of pain
INVENTOR(S): Delorme, Daniel; Gregor, Vlad; Roberts, Edward; Sun, Eric
PATENT ASSIGNEE(S): Astra Pharma Inc., Can.; Astra AB
SOURCE: PCT Int. Appl., 83 pp.
CODEN: PIXKD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

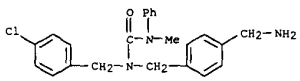
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9967204	A1	19991229	WO 1999-SE1075	19990616
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9948146	A1	20000110	AU 1999-48146	19990616
EP 1089965	A1	20010411	EP 1999-931710	19990616
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

PRIORITY APPLN. INFO.: SE 1998-2209 A 19980622
WO 1999-SE1075 W 19990616

OTHER SOURCE(S): MARPAT 132:49803

IT **252956-35-7P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of 1-(N-substituted)aminomethyl-4-(or 3-)-guanidinomethylbenzenes useful in the management of pain)

RN 252956-35-7 CAPLUS
CN Urea, N-[[4-(aminomethyl)phenyl]methyl]-N-[(4-chlorophenyl)methyl]-N'-methyl-N'-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7
REFERENCE(S):
(1) Aziende Colori Nazionali Affini Acna SPA; GB 1554543 A 1979 CAPLUS
(2) Bayer Corporation; WO 9852558 A1 1998 CAPLUS
(3) Bristol-Myers Squibb Company; WO 9737646 A1 1997 CAPLUS
(4) Fujisawa Pharmaceutical Co, Ltd; WO 9639382 A1 1996 CAPLUS
(5) Fujisawa Pharmaceutical Co, Ltd; EP 0144853 A2 1985 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> fil reg
COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION
FULL ESTIMATED COST | 5.49 | 139.20

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION
CA SUBSCRIBER PRICE | -0.59 | -0.59

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DICTIONARY FILE UPDATES: 20 DEC 2001 HIGHEST RN 377724-19-1

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L5 STRUCTURE UPLOADED

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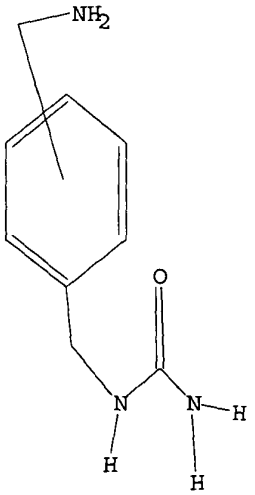
L5 STR



Structure attributes must be viewed using STN Express query preparation.

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=> s l5
SAMPLE SEARCH INITIATED 16:18:11 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   2071 TO ITERATE

 48.3% PROCESSED    1000 ITERATIONS                                 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        38692 TO    44148
PROJECTED ANSWERS:               0 TO        0

L6             0 SEA SSS SAM L5

=> s l5 full
FULL SEARCH INITIATED 16:18:19 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  41411 TO ITERATE

100.0% PROCESSED   41411 ITERATIONS                               4 ANSWERS
SEARCH TIME: 00.00.02

L7             4 SEA SSS FUL L5

=> fil caplus
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                 133.56     272.76

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                     ENTRY    SESSION
CA SUBSCRIBER PRICE                                   0.00      -0.59

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FILE COVERS 1907 - 21 Dec 2001  VOL 135 ISS 26
FILE LAST UPDATED: 20 Dec 2001  (20011220/ED)

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information and abstracts were added in 2001 for over 3.8
million records from 1907-1966.
```

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.


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=> s l7
L8            4 L7

=> d l8 1-4 abs ibib hitstr
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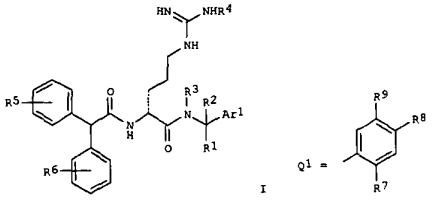
L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2001 ACS
GI



I

AB Pharmaceutically useful title compds. I [Ar1 = Q1, 1-naphthyl, 2-naphthyl (un)substituted by OH, halo, C1-7 alkoxy; R1 = CONH2, C1-4 alkyl optionally substituted or terminated by one or more OH or amino groups; R1R7 = C2-3 alkylene; R4 = H, C1-7 alkyl, C1-4 alkyl-Ph wherein the Ph group may be substituted by one or more OH or C1-4 alkoxy groups; R5, R6 = independently H, OH, C1-4 alkyl, C1-4 alkoxy, halo; R7 = H, OH; R8 =H, halo, OH, C1-7 alkoxy, Ph, PhO, PhCH2O, (CH2)nCONR10R11, (CH2)nNHCONR10R11, O(CH2)nCO2R10; R9 = H, halo, OH, C1-7 alkoxy; R2, R3, R10, R11 = independently H, C1-7 alkyl; n = 1-4] and pharmaceutically acceptable derivs. thereof, are provided which are useful as antagonists of neuropeptide Y and in particular in the treatment of cardiovascular diseases, for example vasoconstriction. Thus, amidation of Boc-D-Orn(Cbz)-OH with (R)-4-methoxy-.alpha.-methylbenzylamine, followed by acidic N.alpha. deprotection, amidation with o-nitrophenyl diphenylacetate (prepn. given), hydrogenolysis, guanylation with N,N'-bis(benzyloxycarbonyl)-S-methylisothiourea and final hydrogenolysis gave desired title compd. I [R1 = (R)-Me; R2 = R3 = R4 = R5 = H; Ar1 = C6H4OMe-4]. All prepd. compds. I exhibit IC50 values of less than 5.0 .mu.M in a neuropeptide Y1 receptor assay.

ACCESSION NUMBER: 1999:222912 CAPLUS
DOCUMENT NUMBER: 130:252673
TITLE: Preparation of diphenylacetylarginine amide derivatives as new neuropeptide Y antagonists
INVENTOR(S): Bergman, Nils-Ake; D'Ambra, Thomas; Pilling, Garry
PATENT ASSIGNEE(S): Astra Aktiebolag, Swed.
SOURCE: PCT Int. Appl., 140 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

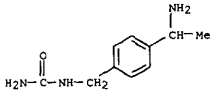
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9915498	A1	19990401	WO 1998-SE1686	19980921
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG,				

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2001 ACS (Continued)

KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
ZA 9808353	A	19990323	ZA 1998-8353	19980911
AU 9892889	A1	19990412	AU 1998-92889	19980921
EP 1017672	A1	20000712	EP 1998-945708	19980921
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9812492	A	20000926	BR 1998-12492	19980921
JP 2001517651	T2	20011009	JP 2000-512808	19980921
US 6127414	A	20001003	US 1998-171779	19981026
NO 2000001483	A	20000523	NO 2000-1483	20000322

PRIORITY APPLN. INFO.: SE 1997-3414 A 19970923
WO 1998-SE1686 W 19980921

OTHER SOURCE(S): MARPAT 130:252673
IT **221670-77-5**
RL: RCT (Reactant)
(prepn. of diphenylacetylarginine amide derivs. as new neuropeptide Y antagonists)
RN 221670-77-5 CAPLUS
CN Urea, [[4-(1-aminoethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3
REFERENCE(S): (1) Karl Thomae Gmbh; WO 9417035 A1 1994 CAPLUS
(2) Karl Thomae Gmbh; WO 9719911 A1 1997 CAPLUS
(3) Karl Thomae Gmbh; WO 9719914 A1 1997 CAPLUS

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2001 ACS
AB *Title compds. T-Z-CONHCH(CH2B)CO-Y-(CH2)nR [I; T = (un)substituted Ph, naphthyl, heteroarom., N, O, S, or T1TC2U; T1, T2 = (un)substituted Ph; U = H, alkoxy, OPh; Z = bond, O, NH, CH2, CH2CH2, CH2O, CH2NH; B = amidine-contg. group; Y = O, NR1; R1 = H, (un)substituted alkyl, CH2Ph; n = 1-3; R = (un)substituted Ph], neuropeptide Y antagonists, were prepd. Thus, (R)-R2NHC(:NH)NH(CH2)3CH(NHR3)CONHR4 [II; R2 = 2,2,5,7,8-pentamethylchroman-6-sulfonyl (Pmc); R3, = Fmoc; R4 = CH2C6H4CH2NHCO2CH2Ph-4] was prepd. from Fmoc-D-Arg(Pmc)OH and 4-PhCH2O2CNHCH2C6H4CH2CONH2, Fmoc-deprotected, and diphenylacetylated, to give II (R2 = Pmc; R3 = COCHPh2; R4 = CH2C6H4CH2NH2-4), which was N-acetylated and deprotected to give II-trifluoroacetate (R2 = H; R3 = COCHPh2; R4 = CH2C6H4CH2NHAc-4).*
I
showed activity as neuropeptide Y antagonists in both in vitro (at 10-8 to 10-5 M) and in vivo tests (at 0.001 to 10 mg/kg).

ACCESSION NUMBER: 1997:473595 CAPLUS
DOCUMENT NUMBER: 127:81788
TITLE: Preparation of amino acid derivatives as neuropeptide Y antagonists
INVENTOR(S): Engel, Wolfhard; Eberlein, Wolfgang; Rudolf, Klaus; Doods, Henri; Wieland, Heike-Andrea; Willim, Klaus-Dieter; Entzeroth, Michael; Wienen, Wolfgang
PATENT ASSIGNEE(S): Dr. Karl Thomae Gmbh, Germany
SOURCE: Ger. Offen., 117 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19544687	A1	19970605	DE 1995-19544687	19951130
WO 9719911	A1	19970605	WO 1996-EP5222	19961126
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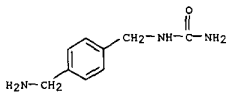
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 885186	A1	19981223	EP 1996-941032	19961126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2000501390	T2	20000208	JP 1997-520166	19961126
US 6114390	A	20000905	US 1997-950113	19971014

PRIORITY APPLN. INFO.: DE 1995-19544687 A 19951130
WO 1996-EP5222 W 19961126
US 1998-945048 A 19980210

OTHER SOURCE(S): MARPAT 127:81788
IT **191868-11-8**
RL: RCT (Reactant)
(prepn. of amino acid derivs. as neuropeptide Y antagonists)
RN 191868-11-8 CAPLUS
CN Urea, [[4-(aminomethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2001 ACS (Continued)



IT **191868-28-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of amino acid derivs. as neuropeptide Y antagonists)
RN 191868-28-7 CAPLUS
CN Urea, [[3-(aminomethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

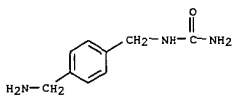
L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2001 ACS

AB Amino acid derivs. R(CH2)nXCONHCH[C6H4NHC(:NR1)NR2R3]COY(CH2)mC6H4R4 [R = (un)substituted Ph, 1- or 2-naphthyl, heterocyclyl; n = 0, 1, 2; X = single bond, O, NH; R1 = H, (un)substituted alkyl or cycloalkyl, etc.; R2 = H, alkyl, (un)substituted phenyl; R3 = H, alkyl; Y = O, NH, alkyl- or benzylimino; m = 1, 2; R4 = H, halo, cyano, alkyl, etc.] were prepd. for use as drugs, esp. as selective neuropeptide Y (NPY) antagonists. Thus, (R,S)-3-(aminoiminomethylamino)-.alpha.-[(diphenylacetyl)amino]-N-[(4-hydroxyphenyl)methyl]-benzeneacetamide hydrochloride by a multistep procedure starting from .alpha.-amino-3-nitrobenzeneacetic acid, diphenylacetyl chloride, 4-hydroxybenzylamine, and cyanamide. The claimed compds. show in vitro NPY antagonist activity at a dosage of 0.001-10 mg/kg.

ACCESSION NUMBER: 1997:473593 CAPLUS
DOCUMENT NUMBER: 127:95607
TITLE: Preparation of amino acid derivatives as drugs
INVENTOR(S): Engel, Wolfhard; Eberlein, Wolfgang; Rudolf, Klaus; Doods, Henri; Wieland, Heike-Andrea; Willim, Klaus-Dieter
PATENT ASSIGNEE(S): Dr. Karl Thomae Gmbh, Germany
SOURCE: Ger. Offen., 50 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19544685	A1	19970605	DE 1995-19544685	19951130
CA 2235937	AA	19970605	CA 1996-2235937	19961126
WO 9719913	A1	19970605	WO 1996-EP5217	19961126
W: CA, JP, MX, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 865425	A1	19980923	EP 1996-940649	19961126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2000501090	T2	20000202	JP 1997-520164	19961126
US 5962530	A	19991005	US 1998-77629	19980529

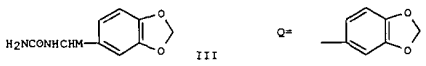
PRIORITY APPLN. INFO.: DE 1995-19544685 19951130
WO 1996-EP5217 19961126
OTHER SOURCE(S): MARPAT 127:95607
IT **191868-11-8**
RL: RCT (Reactant)
(prepn. of amino acid derivs. as neuropeptide Y antagonists)
RN 191868-11-8 CAPLUS
CN Urea, [[4-(aminomethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2001 ACS (Continued)

L8 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2001 ACS

GI



III

AB The invention provides haptens H2NC(O)NHCH(M)(Z1) (M = allyl, (R)-.alpha.-Pr; Z1 = Q), as well as a carrier-hapten complex comprising a carrier and III (M as above; X = spacer). The amt. of human leukocyte elastase-inhibitor complex formed by administration of a beta-lactam inhibitor is detd. by dissocg. the complex to yield the hapten. N-substituted azetidinones are a class of inhibitors of human leukocyte elastase known to be useful in the treatment of inflammatory and degenerative diseases. In inhibiting elastase, the therapeutic agents are shown to form a characteristic stable complex with the enzyme. In the assays disclosed in the invention, the inhibitor-enzyme complex is hydrolyzed, and specific product(s) of the hydrolysis are measured. The assays are useful in a clin. setting for detg. appropriate dosage and assessing the effectiveness of treatment. Prepn. of compds. of the invention is included.

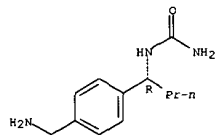
ACCESSION NUMBER: 1995:518932 CAPLUS
DOCUMENT NUMBER: 122:256392
TITLE: Urea derivative haptens, and assay for evaluating inhibition of polymorphonuclear leukocyte elastase by N-substituted azetidinones
INVENTOR(S): Finke, Paul E.; Hagmann, William K.; Hanlon, William A.; Humes, John L.; Knight, Wilson B.; Maccoss, Malcolm; Mumford, Richard A.; Shah, Shrenik K.
PATENT ASSIGNEE(S): Merck and Co., Inc., USA
SOURCE: Brit. UK Pat. Appl., 60 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2280673	A1	19950208	GB 1994-14742	19940721
US 5420010	A	19950530	US 1993-100532	19930730

PRIORITY APPLN. INFO.: US 1993-100532 19930730
OTHER SOURCE(S): MARPAT 122:256392
IT **162653-90-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(urea deriv. haptens, their prepn., and assay for evaluating inhibition of polymorphonuclear leukocyte elastase by azetidinone derivs.)
RN 162653-90-9 CAPLUS
CN Urea, [1-[4-(aminomethyl)phenyl]butyl]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L8 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2001 ACS (Continued)



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FULL ESTIMATED COST                                   19.36     292.12

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY    SESSION
CA SUBSCRIBER PRICE                                   -2.35      -2.94

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Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
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SEARCH TIME: 00.00.04

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The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.


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=> s l12
L13             2 L12

=> d l13 1-2 abs ibib hitstr
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L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2001 ACS

AB Title compds. T-Z-CONHCH(CH2B)CO-Y-(CH2)nR [I; T = (un)substituted Ph, naphthyl, heteroarom., N, O, S, or T1TC2U; T1, T2 = (un)substituted Ph; U = H, alkoxy, OPh; Z = bond, O, NH, CH2, CH2CH2, CH2O, CH2NH; B = amidine-contg. group; Y = O, NR1; R1 = H, (un)substituted alkyl, CH2Ph; n = 1-3; R = (un)substituted Ph], neuropeptide Y antagonists, were prepd. Thus, (R)-R2NHC(:NH)NH(CH2)3CH(NHR3)CONHR4 [II; R2 = 2,2,5,7,8-pentamethylchroman-6-sulfonyl (Pmc); R3, = Fmoc; R4 = CH2C6H4CH2NHCO2CH2Ph-4] was prepd. from Fmoc-D-Arg(Pmc)OH and 4-PhCH2O2CNHCH2C6H4CH2CONH2, Fmoc-deprotected, and diphenylacetylated, to give II (R2 = Pmc; R3 = COCHPh2; R4 = CH2C6H4CH2NH2-4), which was N-acetylated and deprotected to give II-trifluoroacetate (R2 = H; R3 = COCHPh2; R4 = CH2C6H4CH2NHAc-4). I showed activity as neuropeptide Y antagonists in both in vitro (at 10-8 to 10-5 M) and in vivo tests (at 0.001 to 10 mg/kg).

ACCESSION NUMBER: 1997:473595 CAPLUS
DOCUMENT NUMBER: 127:81788
TITLE: Preparation of amino acid derivatives as neuropeptide Y antagonists
INVENTOR(S): Engel, Wolfhard; Eberlein, Wolfgang; Rudolf, Klaus; Doods, Henri; Wieland, Heike-Andrea; Willim, Klaus-Dieter; Entzeroth, Michael; Wienen, Wolfgang
PATENT ASSIGNEE(S): Dr. Karl Thomae Gmbh, Germany
SOURCE: Ger. Offen., 117 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19544687	A1	19970605	DE 1995-19544687	19951130
WO 9719911	A1	19970605	WO 1996-EP5222	19961126
W: CA, JP, MX, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 885186	A1	19981223	EP 1996-941032	19961126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2000501390	T2	20000208	JP 1997-520166	19961126
US 6114390	A	20000905	US 1997-950113	19971014

PRIORITY APPLN. INFO.: DE 1995-19544687 A 19951130
WO 1996-EP5222 W 19961126
US 1998-945048 A 19980210

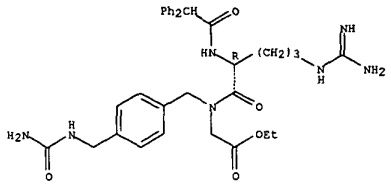
OTHER SOURCE(S): MARPAT 127:81788

IT **191870-32-3P 191870-33-4P 191870-35-6P 191870-36-7P 191871-95-1P 191871-96-2P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of amino acid derivs. as neuropeptide Y antagonists)

RN 191870-32-3 CAPLUS
CN Glycine,
N2-(diphenylacetyl)-D-arginyl-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2001 ACS (Continued)

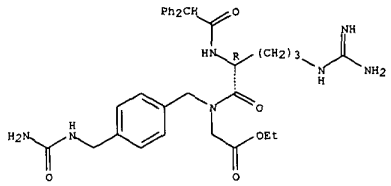


RN 191870-33-4 CAPLUS
CN Glycine,
N2-(diphenylacetyl)-D-arginyl-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-, ethyl ester, diacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191870-32-3
CMF C33 H41 N7 O5

Absolute stereochemistry.



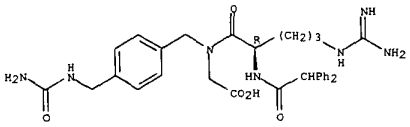
CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191870-35-6 CAPLUS
CN Glycine,
N2-(diphenylacetyl)-D-arginyl-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2001 ACS (Continued)

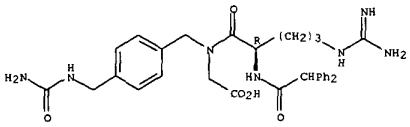


RN 191870-36-7 CAPLUS
CN Glycine,
N2-(diphenylacetyl)-D-arginyl-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191870-35-6
CMF C31 H37 N7 O5

Absolute stereochemistry.



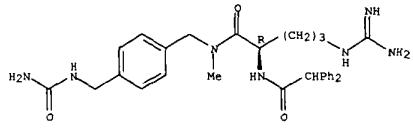
CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191871-95-1 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]methylamino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2001 ACS (Continued)

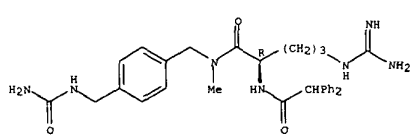


RN 191871-96-2 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]methylamino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenyl-, (R)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191871-95-1
CMF C30 H37 N7 O3

Absolute stereochemistry.



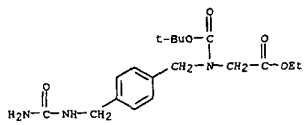
CM 2

CRN 64-19-7
CMF C2 H4 O2

IT **191870-28-7P 191870-31-2P 191870-34-5P 191871-92-8P 191871-94-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of amino acid derivs. as neuropeptide Y antagonists)

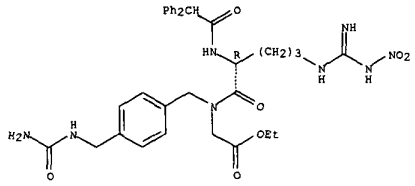
RN 191870-28-7 CAPLUS
CN Glycine, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-N-[(1,1-dimethylethoxy)carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2001 ACS (Continued)



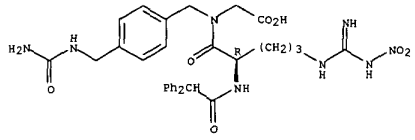
RN 191870-31-2 CAPLUS
CN Glycine,
N2-(diphenylacetyl)-N5-[imino(nitroamino)methyl]-D-ornithyl-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



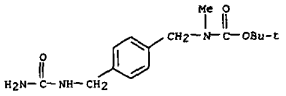
RN 191870-34-5 CAPLUS
CN Glycine,
N2-(diphenylacetyl)-N5-[imino(nitroamino)methyl]-D-ornithyl-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



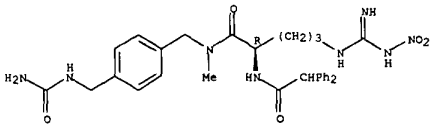
RN 191871-92-8 CAPLUS
CN Carbamic acid, [[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]methyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 191871-94-0 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]methylamino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-.alpha.-phenyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2001 ACS

AB Amino acid derivs. R(CH2)nXCONHCH[C6H4NHC(:NR1)NR2R3]COY(CH2)mC6H4R4 [R = (un)substituted Ph, 1- or 2-naphthyl, heterocyclyl; n = 0, 1, 2; X = single bond, O, NH; R1 = H, (un)substituted alkyl or cycloalkyl, etc.; R2 = H, alkyl, (un)substituted phenyl; R3 = H, alkyl; Y = O, NH, alkyl- or benzylimino; m = 1, 2; R4 = H, halo, cyano, alkyl, etc.] were prepd. for use as drugs, esp. as selective neuropeptide Y (NPY) antagonists. Thus, (R,S)-3-(aminoiminomethylamino)-.alpha.-[(diphenylacetyl]amino]-N-[(4-*hydroxyphenyl)methyl]-benzeneacetamide hydrochloride by a multistep* procedure starting from .alpha.-amino-3-nitrobenzeneacetic acid, diphenylacetyl chloride, 4-hydroxybenzylamine, and cyanamide. The claimed compds. show in vitro NPY antagonist activity at a dosage of 0.001-10 mg/kg.

ACCESSION NUMBER: 1997:473593 CAPLUS
DOCUMENT NUMBER: 127:95607
TITLE: Preparation of amino acid derivatives as drugs
INVENTOR(S): Engel, Wolfhard; Eberlein, Wolfgang; Rudolf, Klaus; Doods, Henri; Wieland, Heike-Andrea; Willim, Klaus-Dieter
PATENT ASSIGNEE(S): Dr. Karl Thomae Gmbh, Germany
SOURCE: *Ger. Offen.*, 50 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

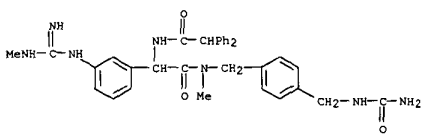
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19544685	A1	19970605	DE 1995-19544685	19951130
CA 2235937	AA	19970605	CA 1996-2235937	19961126
WO 9719913	A1	19970605	WO 1996-EP5217	19961126
W: CA, JP, MX, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 865425	A1	19980923	EP 1996-940649	19961126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2000501090	T2	20000202	JP 1997-520164	19961126
US 5962530	A	19991005	US 1998-77629	19980529
PRIORITY APPLN. INFO.:			DE 1995-19544685	19951130
			WO 1996-EP5217	19961126

OTHER SOURCE(S): MARPAT 127:95607

IT **192001-17-5P 192001-67-5P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of amino acid derivs. as neuropeptide Y antagonists)

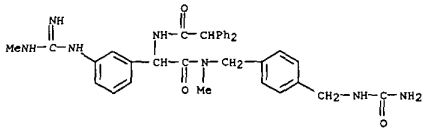
RN 192001-17-5 CAPLUS
CN Benzeneacetamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[(diphenylacetyl)amino]-3-[[imino(methylamino)methyl]amino]-N-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

L13 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2001 ACS (Continued)



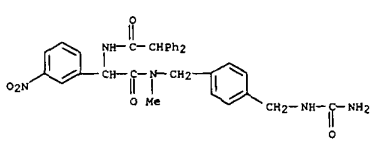
● HCl

RN 192001-67-5 CAPLUS
CN Benzeneacetamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[(diphenylacetyl)amino]-3-[[imino(methylamino)methyl]amino]-N-methyl- (9CI) (CA INDEX NAME)

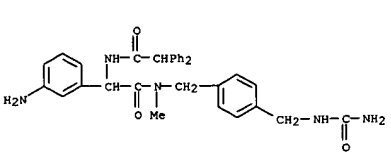


IT **192001-54-0P 192001-55-1P 192001-56-2P**
192001-57-3P 192001-58-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of amino acid derivs. as neuropeptide Y antagonists)

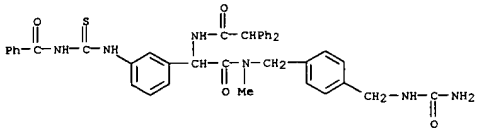
RN 192001-54-0 CAPLUS
CN Benzeneacetamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[(diphenylacetyl)amino]-N-methyl-3-nitro- (9CI) (CA INDEX NAME)



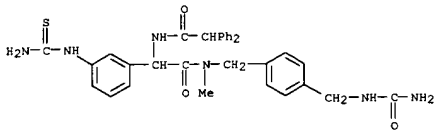
RN 192001-55-1 CAPLUS
CN Benzeneacetamide,
3-amino-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[(diphenylacetyl)amino]-N-methyl- (9CI) (CA INDEX NAME)



RN 192001-56-2 CAPLUS
CN Benzeneacetamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-3-[[(benzoylamino)thioxomethyl]amino]-.alpha.-[(diphenylacetyl)amino]-N-methyl- (9CI) (CA INDEX NAME)

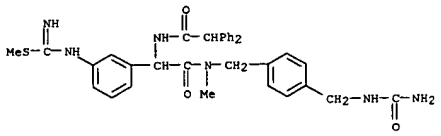


RN 192001-57-3 CAPLUS
CN Benzeneacetamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-3-[(aminothioxomethyl)amino]-.alpha.-[(diphenylacetyl)amino]-N-methyl- (9CI)
(CA INDEX NAME)



RN 192001-58-4 CAPLUS
CN Carbamimidothioic acid, [3-[2-[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]methylamino]-1-[(diphenylacetyl)amino]-2-oxoethyl]phenyl]-, methyl ester, monohydriodide (9CI) (CA INDEX NAME)

L13 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2001 ACS (Continued)



● HI

=> fil reg
COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION
FULL ESTIMATED COST | 10.01 | 568.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION
CA SUBSCRIBER PRICE | -1.18 | -4.12

FILE 'REGISTRY' ENTERED AT 16:27:12 ON 21 DEC 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

STRUCTURE FILE UPDATES: 20 DEC 2001 HIGHEST RN 377724-19-1
DICTIONARY FILE UPDATES: 20 DEC 2001 HIGHEST RN 377724-19-1

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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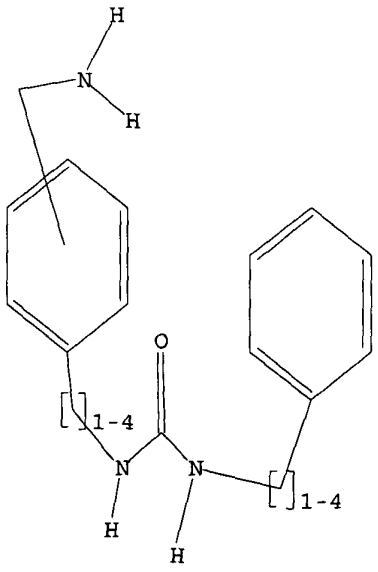
Uploading 09555575.str

L14 STRUCTURE UPLOADED

=> d query
L14 STR



Structure attributes must be viewed using STN Express query preparation.

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=> s l14
SAMPLE SEARCH INITIATED 16:34:43 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   2349 TO ITERATE

 42.6% PROCESSED    1000 ITERATIONS                                 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.02

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        44074 TO    49886
PROJECTED ANSWERS:               0 TO        0

L15           0 SEA SSS SAM L14

=> s l14 full
FULL SEARCH INITIATED 16:34:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  47552 TO ITERATE

100.0% PROCESSED   47552 ITERATIONS                              12 ANSWERS
SEARCH TIME: 00.00.06

L16          12 SEA SSS FUL L14

=> fil caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   137.28     706.22

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -4.12

FILE 'CAPLUS' ENTERED AT 16:35:03 ON 21 DEC 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)
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FILE COVERS 1907 - 21 Dec 2001  VOL 135 ISS 26
FILE LAST UPDATED: 20 Dec 2001  (20011220/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

  This file supports REG1stRY for direct browsing and searching of
  all substance data from the REGISTRY file.  Enter HELP FIRST for
  more information.

CAplus now provides online access to patents and literature
covered in CA from 1907 to the present.  Bibliographic
```

information and abstracts were added in 2001 for over 3.8 million records from 1907-1966.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

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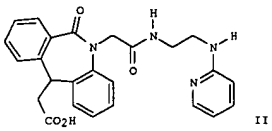
L17 7 L16

=> d l17 1-7 abs ibib hitstr

L17 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2001 ACS
GI



II

AB RZZ1R1 [I; R = group contg. .gtoreq.1 non-H H-bonding atom; R1 = CO2H, or group hydrolizable to CO2H; Z = e.g., (hetero)annelated 2-oxo-1-benzazepin-1,5-diyl; Z1 = bond, (un)substituted NHCH2, -OCH2, -alkylene, -CH:CH, etc.] were prepd. Thus, Me 11-methoxycarbonylmethyl-6-oxo-6,11-dihydro-5H-dibenz[b,e]azepine-5-acetate (prepn. given) was amidated by N-(2-aminoethyl)pyridine-2-amine to give, after sapon., title compd. II. Data for biol. activity of I were given.

ACCESSION NUMBER: 2001:115130 CAPLUS
DOCUMENT NUMBER: 134:178474
TITLE: Preparation of oxobenzazepinealkanoates and analogs as integrin receptor antagonists
INVENTOR(S): Kling, Andreas; Geneste, Herve; Lange, Udo; Lauterbach, Arnulf; Graef, Claudia Isabella; Subkowski, Thomas; Holzenkamp, Uta; Mack, Helmut; Sadowski, Jens; Hornberger, Wilfried; Laux, Volker
PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 158 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

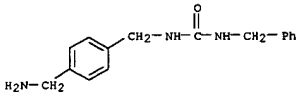
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001010847	A2	20010215	WO 2000-EP7440	20000801
WO 2001010847	A3	20011101		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

DE 19936780	A1	20010215	DE 1999-19936780	19990809

PRIORITY APPLN. INFO.: DE 1999-19936780 A 19990809
OTHER SOURCE(S): MARPAT 134:178474
IT **326405-55-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

L17 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2001 ACS (Continued)
(prepn. of oxobenzazepinealkanoates and analogs as integrin receptor antagonists)
RN 326405-55-4 CAPLUS
CN Urea, N-[[4-(aminomethyl)phenyl]methyl]-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)



L17 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2001 ACS
AB Compds. RXYNHCR1R2COR3 [R = substituted Ph, phenylalkyl, naphthyl, or phospha heterocyclyl-phenyl; X = bond, CH2 or substituted methylene, NH or substituted imino; Y = CO, CS, SO, SO2; R1 = H, alkyl, or substituted alkyl; R2 = H, alkyl; R3 = substituted amino or 1-pyrrolidinyl] were prepd. for use in compns. that inhibit the binding of proteins contg. an SH2 domain to cognate phosphorylated proteins. Thus, Ac-(O-phosphono)-L-Tyr-L-Glu-NMe(CH2)3C6H11-c was prepd. via peptide coupling in soln. and assayed for inhibition of 125I-phosphopeptide to immobilized Src SH2 (IC50 = 2.1 .mu.M).

ACCESSION NUMBER: 1997:347186 CAPLUS
DOCUMENT NUMBER: 126:317670
TITLE: Compounds, compositions and methods for inhibiting the binding of proteins containing an SH2 domain to cognate phosphorylated proteins
INVENTOR(S): Lunney, Elizabeth A.; Para, Kimberly Suzanne; Plummer, Mark Stephen; Prasad, Josyula Venkata Nagendra Vara; Saltiel, Alan Robert; Sawyer, Tomi; Shahripour, Aurash; Singh, Juswinder; Stankovic, Charles John
PATENT ASSIGNEE(S): Warner-Lambert Company, USA; Lunney, Elizabeth A.; Para, Kimberly Suzanne; Plummer, Mark Stephen; Prasad, Josyula Venkata, Nagendra Vara; Saltiel, Alan Robert; Sawyer, Tomi; Shahripour, Aurash; Singh, Juswinder; Stankovic, Charles John
SOURCE: PCT Int. Appl., 141 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

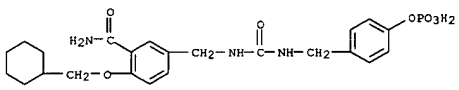
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9712903	A1	19970410	WO 1996-US15998	19961002

W: AL, AU, BB, BG, BR, CA, CN, CZ, EE, GE, HU, IL, IS, JP, KE, KR, LK, LR, LS, LT, LV, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, SD, SG, SI, SK, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

AU 9673926	A1	19970428	AU 1996-73926	19961002
ZA 9608334	A	19970513	ZA 1996-8334	19961003
US 5922697	A	19990713	US 1998-51038	19980331

PRIORITY APPLN. INFO.: US 1995-4954 P 19951004
WO 1996-US15998 W 19961002
OTHER SOURCE(S): MARPAT 126:317670
IT **189393-04-2P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of compds. and compns. for inhibiting the binding of proteins contg. an SH2 domain to cognate phosphorylated proteins)
RN 189393-04-2 CAPLUS
CN Benzamide, 2-(cyclohexylmethoxy)-5-[[[[[[4-(phosphonooxy)phenyl]methyl]amino]carbonyl]amino]methyl]- (9CI) (CA INDEX NAME)

L17 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2001 ACS (Continued)



L17 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2001 ACS

AB T2NR1CR2R3COY(CH2)nR [n = 0-5; R = H, OH, (substituted) Ph, naphthyl, aminophenyl, aminonaphthyl, hydroxyphenyl, hydroxynaphthyl, diphenylmethyl, heteroaryl, cycloalkyl, etc.; Y = O, NR4; R1, R4 = H, alkyl, cycloalkyl, (substituted) Ph, PhCH2; R2 = substituted alkyl, Ph, PhCH2; R3 = H, alkyl, cycloalkyl; T = H, Ph, (substituted) heteroaryl, protecting group, etc.; Z = bond, CO, CH2, SO, SO2], were prepd. Thus, H-D-Arg(NO2)-OH in THF was treated with aq. NaOH and then with Ph2CHCOCl to give 85% amide. This in THF was treated with N-methylmorpholine, iso-Bu chloroformate, and 4-(aminomethyl)acetanilide under cooling to give 63% (R)-N-[[4-(acetylamino)phenyl]methyl]-N5-[amino(nitroimino)methyl]-N2-(diphenylacetyl)ornithinamide. This was hydrogenated in aq. HOAc over Pd to give (R)-N-[[4-(acetylamino)phenyl]methyl]-N2-diphenylacetylargininamide acetate. Title compds. antagonized neuropeptide Y-induced effects on blood pressure in rats at 0.01-10 mg/kg.

ACCESSION NUMBER: 1995:662328 CAPLUS
DOCUMENT NUMBER: 123:83996
TITLE: Preparation of aminoacid derivatives as neuropeptide Y antagonists.
INVENTOR(S): Rudolf, Klaus; Eberlein, Wolfgang; Engel, Wolfhard; Mihm, Gerhard; Doods, Henri; Wieland, Heike-Andrea; Willim, Klaus-Dieter; Krause, Juergen; Dollinger, Horst; et al.
PATENT ASSIGNEE(S): Dr. Karl Thomae GmbH, Germany
SOURCE: PCT Int. Appl., 308 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

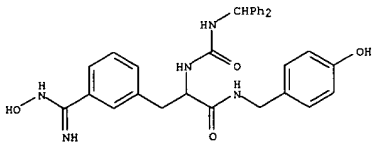
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9417035	A1	19940804	WO 1994-EP109	19940118
W: AU, BG, BY, CA, CN, CZ, FI, HU, JP, KR, NO, NZ, PL, RO, RU, SK, UA				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
DE 4301452	A1	19940721	DE 1993-4301452	19930120
DE 4326465	A1	19950209	DE 1993-4326465	19930806
AU 9458841	A1	19940815	AU 1994-58841	19940118
AU 683442	B2	19971113		
EP 680469	A1	19951108	EP 1994-905073	19940118
EP 680469	B1	20000426		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 08505862	T2	19960625	JP 1994-516636	19940118
AT 192142	E	20000515	AT 1994-905073	19940118
FI 9503467	A	19950718	FI 1995-3467	19950718
NO 9502869	A	19950919	NO 1995-2869	19950719

PRIORITY APPLN. INFO.: DE 1993-4301452 A 19930120
DE 1993-4326465 A 19930806
WO 1994-EP109 W 19940118

OTHER SOURCE(S): MARPAT 123:83996

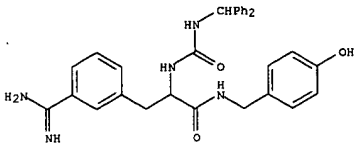
IT **164643-43-0P 164645-26-5P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

L17 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2001 ACS (Continued)
NAME)



L17 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2001 ACS (Continued)
(prepn. of aminoacid derivs. as neuropeptide Y antagonists)

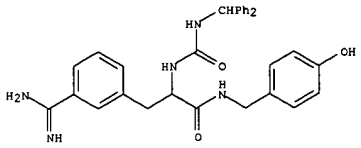
RN 164643-43-0 CAPLUS
CN Benzenepropanamide, 3-(aminoiminomethyl)-.alpha.-[[[(diphenylmethyl)amino]carbonyl]amino]-N-[(4-hydroxyphenyl)methyl]-(9CI) (CA INDEX NAME)



RN 164645-26-5 CAPLUS
CN Benzenepropanamide, 3-(aminoiminomethyl)-.alpha.-[[[(diphenylmethyl)amino]carbonyl]amino]-N-[(4-hydroxyphenyl)methyl]-, monoacetate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 164643-43-0
CMF C31 H31 N5 O3



CM 2

CRN 64-19-7
CMF C2 H4 O2

IT **164647-74-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of aminoacid derivs. as neuropeptide Y antagonists)

RN 164647-74-9 CAPLUS
CN Benzenepropanamide, .alpha.-[[[(diphenylmethyl)amino]carbonyl]amino]-3-[(hydroxyamino)iminomethyl]-N-[(4-hydroxyphenyl)methyl]- (9CI) (CA INDEX

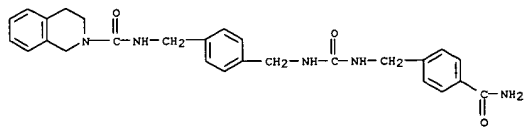
L17 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2001 ACS

AB A strategy for urea linked diamine libraries has been developed. The route involves the use of unprotected diamines and a p-nitrophenyl carbamate intermediate for the generation of the urea. The products obtained after 8 steps are of high chem. purity.

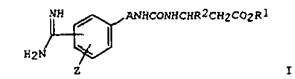
ACCESSION NUMBER: 1995:517469 CAPLUS
DOCUMENT NUMBER: 123:55085
TITLE: A strategy for urea linked diamine libraries
AUTHOR(S): Hutchins, Steven M.; Chapman, Kevin T.
CORPORATE SOURCE: Dep. of Molecular Design and Diversity, Merck Res. Laboratories, Rahway, NJ, 07065, USA
SOURCE: Tetrahedron Lett. (1995), 36(15), 2583-6
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **164470-68-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(solid-phase synthetic method for urea linked diamine libraries using unprotected diamines and resin-bound p-nitrophenyl carbamate intermediates)

RN 164470-68-2 CAPLUS
CN 2(1H)-Isoquinolinecarboxamide, N-[[4-[[[[[[4-(aminocarbonyl)phenyl]methyl]amino]carbonyl]amino]methyl]phenyl]methyl]-3,4-dihydro- (9CI) (CA INDEX NAME)



L17 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2001 ACS
GI



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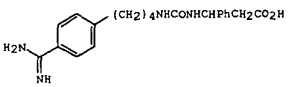


II

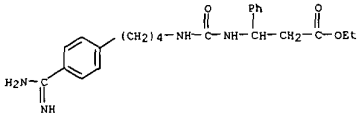
AB *Title compds. [I; A = alkylene, alkenylene, alkynylene; Z = H, halo, OH, alkoxy, alkyl; R1 = H, alkyl, aralkyl, alkanoyloxyalkyl; R2 = H, alkyl, alkenyl, alkynyl, aryl, (substituted) heteroaryl], were prepd. Thus, 5-(p-cyanophenyl)pentylamine (prepn. given) was stirred with triphosgene and Et3N in dioxane at 70.degree. for 2 h to give the isocyanate, which was stirred with .beta.-phenylalanine and Et3N in DMF to give the urea deriv, which was converted to title compd. II. II inhibited collagen-induced aggregation of dog platelet rich plasma with IC50 = 0.6 .mu.M.*

ACCESSION NUMBER: 1994:299320 CAPLUS
DOCUMENT NUMBER: 120:299320
TITLE: Preparation of peptide analogs as blood platelet *aggregation inhibitors*
INVENTOR(S): Tjoeng, Foe S.; Zablocki, Jeffery A.
PATENT ASSIGNEE(S): Searle, G. D., and Co., USA
SOURCE: U.S., 16 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

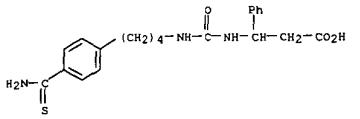
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5272162	A	19931221	US 1992-908128	19920702
WO 9401396	A1	19940120	WO 1993-US5602	19930616
W: AT, AU, BB, BG, BR, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9345337	A1	19940131	AU 1993-45337	19930616
US 5344837	A	19940906	US 1993-126817	19930923
PRIORITY APPLN. INFO.:			US 1992-908128	19920702
			WO 1993-US5602	19930616

OTHER SOURCE(S): MARPAT 120:299320
IT **154772-19-7P 154772-20-0P 154772-21-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as blood platelet aggregation inhibitor)
RN 154772-19-7 CAPLUS

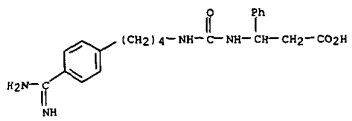
L17 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2001 ACS (Continued)



IT **154772-42-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as intermediate for blood platelet aggregation inhibitor)
RN 154772-42-6 CAPLUS
CN Benzenepropanoic acid,
.beta.-[[[[4-[4-(aminothioxomethyl)phenyl]butyl]ami
no]carbonyl]amino]- (9CI) (CA INDEX NAME)



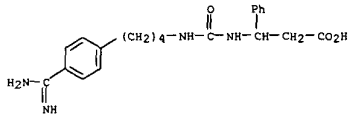
L17 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2001 ACS (Continued)
CN Benzenepropanoic acid,
.beta.-[[[[4-[4-(aminoiminomethyl)phenyl]butyl]amin
o]carbonyl]amino]- (9CI) (CA INDEX NAME)



RN 154772-20-0 CAPLUS
CN Benzenepropanoic acid,
.beta.-[[[[4-[4-(aminoiminomethyl)phenyl]butyl]amin
o]carbonyl]amino]-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 154772-19-7
CMF C21 H26 N4 O3



CM 2

CRN 76-05-1
CMF C2 H F3 O2

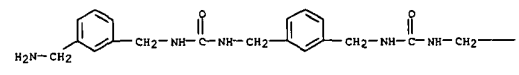
RN 154772-21-1 CAPLUS
CN Benzenepropanoic acid,
.beta.-[[[[4-[4-(aminoiminomethyl)phenyl]butyl]amin
o]carbonyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)

L17 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2001 ACS
AB The title polymers are prepd. by using diamines (*H2NR1NHCONH*)2R2 (R1-2 = C2-8 alkylene, C6-15 cycloalkylene, phenylene, etc.) as chain extenders. A polyurea-polyurethane prepd. by reacting 80.8 parts MDI in turn with 400 parts OH-terminated THF-neopentyl glycol adduct (no.-av. mol. wt. 1780) and 26.5 parts (H2NCH2CH2NHCONH-p-C6H4)2CH2 (I) was used to prep. fibers which broke after heating at 180.degree. and 50% elongation for 1600 s, *vs. 200 for polymers prepd. with H2NCH2CH2NH2 instead of I.*

ACCESSION NUMBER: 1993:497887 CAPLUS
DOCUMENT NUMBER: 119:97887
TITLE: Preparation of ureylene group-containing diamines and heat-resistant polyurea-polyurethanes
INVENTOR(S): Yosizato, Akihiko; Furubeppu, Satoshi
PATENT ASSIGNEE(S): Asahi Kasei Kogyo K. K., Japan
SOURCE: PCT Int. Appl., 123 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

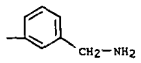
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9218468	A1	19921029	WO 1992-JP458	19920410
W: CA, KR, US				
RW: DE, FR, GB, IT, NL				
EP 533954	A1	19930331	EP 1992-908398	19920410
EP 533954	B1	19980506		
R: DE, FR, GB, IT, NL				
JP 05155841	A2	19930622	JP 1992-116692	19920410
US 5414118	A	19950509	US 1993-176503	19931230
US 5576410	A	19961119	US 1995-378387	19950125
PRIORITY APPLN. INFO.:			JP 1991-106496	19910412
			JP 1991-204540	19910722
			JP 1991-260784	19911008
			WO 1992-JP458	19920410
			US 1992-956014	19921209
			US 1993-176503	19931230

OTHER SOURCE(S): MARPAT 119:97887
IT **149416-21-7P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of, as chain extender for heat-resistant polyurea-polyurethanes)
RN 149416-21-7 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-[[3-(aminomethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



L17 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2001 ACS (Continued)

PAGE 1-B



L17 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2001 ACS

GI For diagram(s), see printed CA Issue.

AB Title penicillins (I) exhibit activity against both Gram-pos. and Gram-neg. bacteria and particularly against Klebsiella, Proteus, and Pseudomonas, which are less susceptible to Ampicillin (II). To a suspension of 21 g II in 200 ml 60% aq. THF at 20.degree. was added 7.5 ml Et3N (pH 7.5-8.1) followed by 8.9 g BzNCO in 35 ml THF at 20.degree. over 30 min with addn. of Et3N to maintain pH 7.5, and the mixt. kept 45 min and worked up to give 6.4 g K salt of I (R1 = R2 = Ph), m. .apprx.200.degree. (decompn.). Similarly were prepd. .apprx.30 other I and 3 R1SO2 analogs of I.

ACCESSION NUMBER: 1970:435365 CAPLUS
DOCUMENT NUMBER: 73:35365
TITLE: Bactericidal substituted-acylureidoacylaminopenicillanic acids
INVENTOR(S): Koenig, Hans B.; Benz, Siegfried; Fritsche, Dieter; Metzger, Karl G.
PATENT ASSIGNEE(S): Farbenfabriken Bayer A.-G.
SOURCE: S. African, 53 pp.
CODEN: SFXXAB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

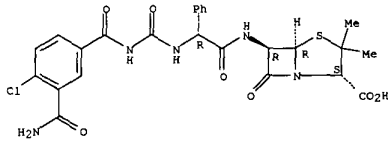
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ZA 6903875		19691210		
PRIORITY APPLN. INFO.:			DE	19680612

IT **27371-85-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 27371-85-3 CAPLUS

CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[2-[3-(3-carbamoyl-4-chlorobenzoyl)ureido]-2-phenylacetamido]-3,3-dimethyl-7-oxo-, monopotassium salt (8CI) (CA INDEX NAME)

Absolute stereochemistry.



● K

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COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      33.23     739.45

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)            SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -4.12      -8.24

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DICTIONARY FILE UPDATES:  20 DEC 2001  HIGHEST RN 377724-19-1

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  conducting SmartSELECT searches.

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for more information.  See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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L18     STRUCTURE UPLOADED

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L18             STR
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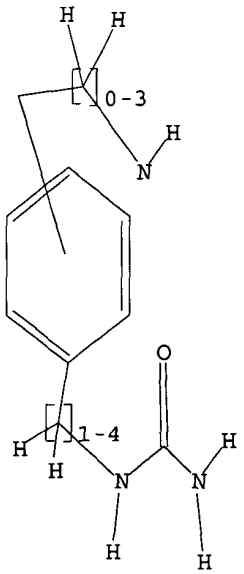

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED -   3187 TO ITERATE

 31.4% PROCESSED    1000 ITERATIONS                                2 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.04

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        60356 TO    67124
PROJECTED ANSWERS:               2 TO      278

L19           2 SEA SSS SAM L18

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SEARCH TIME: 00.00.08

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FULL ESTIMATED COST                                   133.87     873.32

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                     0.00      -8.24

FILE 'CAPLUS' ENTERED AT 16:43:21 ON 21 DEC 2001
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FILE COVERS 1907 - 21 Dec 2001  VOL 135 ISS 26
FILE LAST UPDATED: 20 Dec 2001  (20011220/ED)

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  This file supports REG1stRY for direct browsing and searching of
  all substance data from the REGISTRY file.  Enter HELP FIRST for
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information and abstracts were added in 2001 for over 3.8 million records from 1907-1966.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.


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=> s l20
L21          21 L20

=> d l21 1-21 abs ibib hitstr
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L21 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2001 ACS
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. [I; R1 = OH, OCH3, NHCONH2, CH2NHCONH2, CH2NHCON(CH3)2, CF3, CH3, F; R2 = H; R1-R2 = OCH2O; R3 = H, CH3; R4 = H, (R)-CH3; R5 = H, 4-OH, 4-Cl, 4-OCH3, 4-CH3; R6 = H, 4-Cl, 4-OCH3, 4-OH, 4-CH3, 3-Cl, 3-OCH3; n = 1, 2; pyridine ring attached at 4, 3 position] and salts are prepd. and are useful as antagonists of neuropeptide Y and in particular in the treatment of cardiovascular diseases, for example vasoconstriction. Thus, the title compd. II was prepd. and tested.

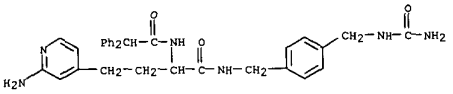
ACCESSION NUMBER: 2001:31469 CAPLUS
DOCUMENT NUMBER: 134:100568
TITLE: Preparation and effect of diphenylacetylaminoalkylamides as neuropeptide Y antagonists
INVENTOR(S): Antonsson, Thomas; Bergman, Nils-Ake; Linschoten, Marcel; Westerlund, Christer
PATENT ASSIGNEE(S): AstraZeneca AB, Swed.
SOURCE: PCT Int. Appl., 90 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001002364	A1	20010111	WO 2000-SE1443	20000706

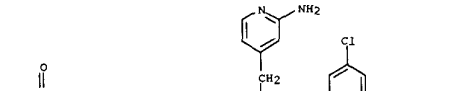
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: SE 1999-2596 A 19990706
OTHER SOURCE(S): MARPAT 134:100568
IT **318883-15-7P 318883-20-4P 318883-24-8P**
318884-04-7P 318884-09-2P 318884-13-8P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and effect of diphenylacetylaminoalkylamides as neuropeptide Y antagonists)
RN 318883-15-7 CAPLUS
CN 3-Pyridinepropanamide,
6-amino-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[(diphenylacetyl)amino]- (9CI) (CA INDEX NAME)

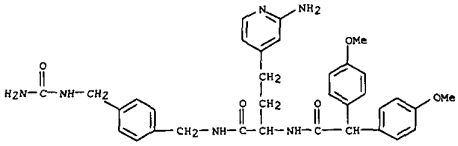
L21 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 318884-09-2 CAPLUS
CN 4-Pyridinebutanamide,
2-amino-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[[bis(4-chlorophenyl)acetyl]amino]- (9CI) (CA INDEX NAME)

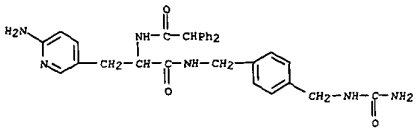


RN 318884-13-8 CAPLUS
CN 4-Pyridinebutanamide,
2-amino-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[[bis(4-methoxyphenyl)acetyl]amino]- (9CI) (CA INDEX NAME)

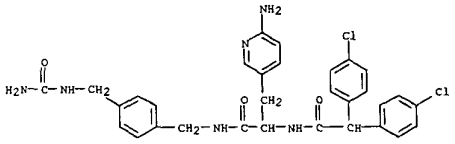


REFERENCE COUNT: 2
REFERENCE(S): (1) Astra Aktiebolag; WO 9915498 A1 1999 CAPLUS
(2) Dr Karl Thomae Gmbh; WO 9417035 A1 1994 CAPLUS

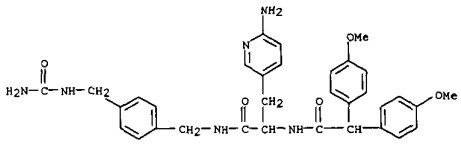
L21 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 318883-20-4 CAPLUS
CN 3-Pyridinepropanamide,
6-amino-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[[bis(4-chlorophenyl)acetyl]amino]- (9CI) (CA INDEX NAME)



RN 318883-24-8 CAPLUS
CN 3-Pyridinepropanamide,
6-amino-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[[bis(4-methoxyphenyl)acetyl]amino]- (9CI) (CA INDEX NAME)



RN 318884-04-7 CAPLUS
CN 4-Pyridinebutanamide,
2-amino-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[(diphenylacetyl)amino]- (9CI) (CA INDEX NAME)

L21 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2001 ACS
AB Neuropeptide Y (NPY) has an important role in the regulation of stress responses and feeding behavior. There is evidence that some effects elicited by NPY occur due to modulation of action of regular neurotransmitters. The main objective of the present study was to test behavioral effects of the novel neuropeptide Y (NPY) Y1 receptor antagonist (R)-N-[[4-(aminocarbonylaminomethyl)-phenyl]methyl]-N2-(diphenylacetyl)-argininamide trifluoroacetate (BIBO 3304) on dopamine-dependent behavior. Intracerebroventricular administration of BIBO 3304 (1, 10, 50 nmol) had no effect on locomotor activity as measured by no. of rearings and no. of squares visited in an open field test in rats, but at 50 nmol dose defecation was significantly increased. BIBO 3304 (10 nmol) reduced amphetamine-induced increases in horizontal and vertical activity whereas its S-configurated enantiomer BIBO 3457 was inactive. In an open field test BIBO 3304 (10 nmol) inhibited purposeless running in rats sensitized to direct dopaminergic agonist apomorphine (0.5 mg/kg, s.c.). BIBO 3304 (10 nmol but not 1 nmol, i.c.v.) reduced fighting in apomorphine-induced aggression paradigm. Apomorphine-induced aggression was reduced by another, structurally similar, but less potent NPY Y1 receptor antagonist BIBP 3226 (10 nmol, i.c.v.). A lower dose of BIBP 3226 (1 nmol, i.c.v.) was inactive. Concomitant administration of BIBO 3304 (10 nmol) with low doses of apomorphine (0.5 mg/kg s.c.) over the course of 10 days failed to prevent the development of apomorphine-induced aggressiveness. These data demonstrate that behavioral response to indirectly (amphetamine) and directly (apomorphine) acting dopaminergic stimulants is inhibited by NPY Y1 receptor antagonists and suggest that NPY Y1 receptor activation might be important in pathophysiol. of disorders assocd. with hyperactivity of dopaminergic pathways, such as psychosis, schizophrenia and drug abuse. We propose that the effects of BIBO 3304 on amphetamine/apomorphine-induced locomotion and apomorphine-induced aggressiveness are due to modulation of postsynaptic dopaminergic responses rather than direct effects of NPY Y1 receptor antagonists on dopamine or NPY release.

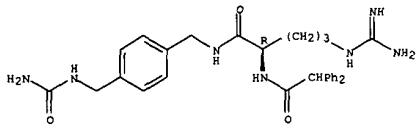
ACCESSION NUMBER: 2000:236797 CAPLUS
DOCUMENT NUMBER: 133:68794
TITLE: Inhibition of amphetamine- and apomorphine-induced behavioral effects by neuropeptide Y Y1 receptor antagonist BIBO 3304
AUTHOR(S): Kask, A.; Harro, J.
CORPORATE SOURCE: Faculty of Medicine, Department of Pharmacology, University of Tartu, Tartu, 50411, Estonia
SOURCE: Neuropharmacology (2000), 39(7), 1292-1302
CODEN: NEPHBW; ISSN: 0028-3908
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **191868-14-1**, BIBO 3304 **217977-06-5**, BIBO 3457
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inhibition of amphetamine- and apomorphine-induced behavioral effects by NPY Y1 receptor antagonist BIBO 3304)
RN 191868-14-1 CAPLUS
CN Benzeneacetamide,
N-[(1R)-1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenyl-,

L21 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191868-13-0
CMF C29 H35 N7 O3

Absolute stereochemistry.



CM 2

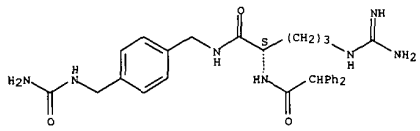
CRN 76-05-1
CMF C2 H F3 O2

RN 217977-06-5 CAPLUS
CN Benzeneacetamide,
N-[(1S)-1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]met
hyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenyl-,
mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 217977-05-4
CMF C29 H35 N7 O3

Absolute stereochemistry.



CM 2

L21 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2001 ACS
AB *Neuropeptide Y (NPY), one of the most abundant peptides in rat and human* brains, appears to act in the hypothalamus to stimulate feeding. It was first suggested that the NPY Y1 receptor (Y1R) was involved in feeding stimulated by NPY. More recently a novel NPY receptor subtype (Y5R) was identified in rat and human as the NPY feeding receptor subtype. There is, however, no abs. consensus since selective Y1R antagonists also antagonize NPY-induced hyperphagia. Nevertheless, new anti-obesity drugs may emerge from further pharmacol. characterization of the NPY receptors and their antagonists. A large panel of Y1R and Y5R antagonists (such as CGP71683A, BIBO3304, BIBP3226, 1229U91, and SYNAPTIC and BANYU derivs.
but
also patentable in house-synthesized compds.) have been evaluated through in vitro and in vivo tests in an attempt to establish a predictive *relationship between the binding selectivity for human receptors*, the potency in isolated organs assays, and the inhibitory effect on food intake in both normal and obese hyperphagic rodents. Although these results do not allow one to conclude on the implication of a single receptor subtype at the mol. level, this approach is crucial for the design of novel NPY receptor antagonists with potential use as anti-obesity drugs and for evaluation of their possible adverse
peripheral
side effects, such as hypotension.
ACCESSION NUMBER: 2000:146404 CAPLUS
DOCUMENT NUMBER: 132:274293
TITLE: Food intake regulation in rodents: Y5 or Y1 NPY receptors or both?
AUTHOR(S): *Duhault, Jacques; Boulanger, Michele; Chamorro,* Susana; Boutin, Jean A.; Zuana, Odile Della;
Douillet,
Emmanuelle; Fauchere, Jean-Luc; Feletou, Michel; Germain, Martine; Husson, Bruno; Vega, Antonio Monge; Renard, Pierre; Tisserand, Francoise
CORPORATE SOURCE: Division of Diabetes and Metabolic Diseases, Institut de recherches servier, Suresnes, 92150, Fr.
SOURCE: Can. J. Physiol. Pharmacol. (2000), 78(2), 173-185
CODEN: CJPPA3; ISSN: 0008-4212
PUBLISHER: *National Research Council of Canada*
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **191868-14-1**, BIBO3304
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(food intake regulation and Y5 or Y1 NPY receptors in relation to the design of NPY receptor antagonists as anti-obesity agents)
RN 191868-14-1 CAPLUS
CN Benzeneacetamide,
N-[(1R)-1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]met
hyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenyl-,
mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191868-13-0
CMF C29 H35 N7 O3

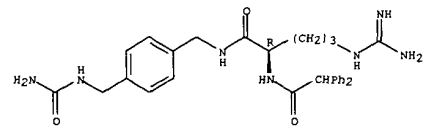
Absolute stereochemistry.

L21 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

CRN 76-05-1
CMF C2 H F3 O2

REFERENCE COUNT: 36
REFERENCE(S): (1) Allikmets, L; Zhurnal Vysshei Nervnoi
Deiatelnosti
1982, V32, P130 CAPLUS
(2) Ault, D; Brain Research 1997, V760, P210 CAPLUS
(3) Ault, D; Journal of Pharmacology and Experimental Therapeutics 1998, V284, P553 CAPLUS
(4) Badiani, A; Journal of Neuroscience 1998, V18, P10579 CAPLUS
(7) Broqua, P; Behavioural Pharmacology 1995, V6,
P215
CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)



CM 2

CRN 76-05-1
CMF C2 H F3 O2

REFERENCE COUNT: 42
REFERENCE(S): (1) Beck, B; J Nutr 1993, V123, P1168 CAPLUS
(2) Beck, B; Physiol Behav 1990, V47, P449 CAPLUS
(4) Cadieux, A; Regul Pept 1993, V46, P557 CAPLUS
(5) Criscione, L; J Clin Invest 1998, V102, P2136 CAPLUS
(6) Daniels, A; Proc Natl Acad Sci USA 1995, V92, P9067 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2001 ACS

AB Neuropeptide Y (NPY) and melanocortin (MC) peptides have opposite effects on food intake: NPY-like peptides and MC receptor antagonists stimulate feeding and increase body wt., whereas melanocortins and NPY antagonists inhibit food intake. In this study we tested whether the orexigenic effect of the selective MC4 receptor antagonist HS014 (1 nmol) could be inhibited by three different NPY antagonists, (R)-N2-(diphenylacetyl)-N-[(4-hydroxy-phenyl)methyl]-D-argini namide (BIBP3226), (R)-N-[[4-(aminocarbonylaminomethyl)-phenyl]methyl]-N2-(dip henylacetyl)-argininamide-trifluoroacetate (BIBO3304), and decapeptide [D-Tyr27.36D-Thr32]NPY27-36, after icv administration in freely feeding male rats. All three NPY receptor antagonists inhibited the orexigenic effects of HS014 partially and with markedly different potency. [D-Tyr27.36D-Thr32]NPY27-36 was active only in subconvulsive dose. The NPY Y1 selective antagonist BIBP3226 was more effective in inhibiting the effect of HS014 than BIBO3304 despite in vitro data indicating that BIBP3226 is about 10 times less potent than BIBO3304 at NPY Y1 receptor. An enantiomer of BIBO3304, BIBO3457, failed to inhibit HS014-induced feeding, indicating that the effects of BIBO3304 were stereoselective. These results suggest that stimulation of food intake caused by weakening of melanocortinergic tone at the MC4 receptor is partially but not exclusively related to NPY Y1 receptor activation.

ACCESSION NUMBER: 2000:146401 CAPLUS
DOCUMENT NUMBER: 132:306185
TITLE: Orexigenic effect of the melanocortin MC4 receptor antagonist HS014 is inhibited only partially by neuropeptide Y Y1 receptor selective antagonists
AUTHOR(S): Kask, Ants; Schioth, Helgi B.; Harro, Jaanus; Wikberg, Jarl E. S.; Rago, Lembit
CORPORATE SOURCE: Department of Pharmacology, Faculty of Medicine, University of Tartu, Tartu, 50090, Estonia
SOURCE: Can. J. Physiol. Pharmacol. (2000), 78(2), 143-149
CODEN: CJPPA3; ISSN: 0008-4212
PUBLISHER: National Research Council of Canada
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **191868-14-1**, BIBO3304 **217977-06-5**, BIBO 3457
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(orexigenic effect of the melanocortin MC4 receptor antagonist HS014 is
inhibited only partially by NPY Y1 receptor selective antagonists)

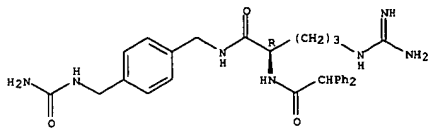
RN 191868-14-1 CAPLUS
CN Benzeneacetamide,
N-[(1R)-1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]met hyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenyl-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191868-13-0
CMF C29 H35 N7 O3

Absolute stereochemistry.

L21 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)



CM 2

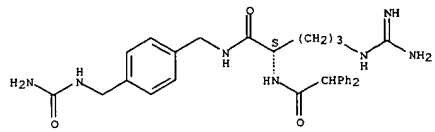
CRN 76-05-1
CMF C2 H F3 O2

RN 217977-06-5 CAPLUS
CN Benzeneacetamide,
N-[(1S)-1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]met hyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenyl-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 217977-05-4
CMF C29 H35 N7 O3

Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H F3 O2

L21 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

REFERENCE COUNT: 35
REFERENCE(S):
(1) Adan, R; Peptides 1997, V18, P1279 CAPLUS
(2) Criscione, L; J Clin Invest 1998, V102, P2136 CAPLUS
(3) Edwards, C; J Endocrinol 1999, V160, PR7 CAPLUS
(4) Fan, W; Nature 1997, V385, P165 CAPLUS
(5) Gross, P; J Cardiovasc Pharmacol 1993, V22, PS282 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2001 ACS

AB We have evaluated 3 newly developed neuropeptide Y receptor antagonists in various in vitro binding and bioassays: BIBO3304 (Y1), T4[NPY33-36]4 (Y2), and CGP71683A (Y5). In rat brain homogenates, BIBO3304 competes for the same population of [125I][Leu31,Pro34] peptide YY (PYY) binding sites (75%) as BIBP3226, but with a 10 fold greater affinity (IC50 of 0.2.+-.0.04 nM for BIBO3304 vs. 2.4.+-.0.07 nM for BIBP3226), while CGP71683A has high affinity for 25% of specific [125I][Leu31,Pro34]PYY binding sites. Both BIBO3304 and CGP71683A (at 1.0 .mu.M) were unable to compete for a significant proportion of specific [125I]PYY3-36/Y2 sites. The purported Y2 antagonist T4[NPY33-36]4 competed against [125I]PYY3-36 binding sites with an affinity of 750 nM. These results were confirmed in HEK 293 cells transfected with either the rat Y1, Y2, Y4, or Y5 receptor cDNA. BIBO3304, but not CGP71683A, competed with high affinity for [125I][Leu31,Pro34]PYY binding sites in HEK 293 cells transfected with the rat Y1 receptor cDNA, whereas the reverse profile was obsd. upon transfection with the rat Y5 receptor cDNA. Addnl., both mols. were inactive at Y2 and Y4 receptor subtypes expressed in HEK 293 cells. Receptor autoradiog. studies revealed the presence of [125I][Leu31,Pro34]PYY/BIBO3304-insensitive sites in the rat brain as reported previously for BIBP3226. Finally, the selective antagonistic properties of BIBO3304 were demonstrated in a Y1 bioassay (rabbit saphenous vein; pA2 value of 9.04) while being inactive in Y2 (rat vas deferens) and Y4 (rat colon) bioassays. These results confirm the high affinity and selectivity of BIBO3304 and CGP71683A for the Y1 and Y5 receptor subtypes, resp., while the purported Y2 antagonist, T4[NPY33-36]4 possesses rather low affinity for this receptor.

ACCESSION NUMBER: 2000:146398 CAPLUS
DOCUMENT NUMBER: 132:274781
TITLE: Potent and selective tools to investigate neuropeptide Y receptors in the central and peripheral nervous systems: BIBO3304 (Y1) and CGP71683A (Y5)
AUTHOR(S): Dumont, Yvan; Cadieux, Alain; Doods, Henri; Fournier, Alain; Quirion, Remi
CORPORATE SOURCE: Douglas Hospital Research Centre, Department of Psychiatry, McGill University, Verdun, PQ, H4H 1R3, Can.
SOURCE: Can. J. Physiol. Pharmacol. (2000), 78(2), 116-125
CODEN: CJPPA3; ISSN: 0008-4212
PUBLISHER: National Research Council of Canada
DOCUMENT TYPE: Journal
LANGUAGE: English

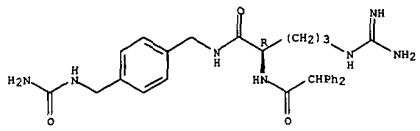
IT **191868-14-1**, BIBO3304
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
(potent and selective NPY receptor antagonists as tools to investigate neuropeptide Y receptors in central and peripheral nervous systems)

RN 191868-14-1 CAPLUS
CN Benzeneacetamide,
N-[(1R)-1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]met hyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenyl-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

L21 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
CRN 191868-13-0
CMF C29 H35 N7 O3

Absolute stereochemistry.

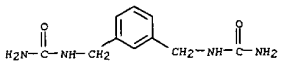


CM 2

CRN 76-05-1
CMF C2 H F3 O2

REFERENCE COUNT: 52
REFERENCE(S): (1) Abounader, R; Br J Pharmacol 1995, V116, P2245 CAPLUS
(2) Bitran, M; Eur J Pharmacol 1997, V319, P43 CAPLUS
(3) Cadieux, A; Regul Pept 1993, V46, P557 CAPLUS
(4) Colmers, W; Trends Neurosci 1994, V17, P373 CAPLUS
(5) Criscione, L; J Clin Invest 1998, V102, P2136 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2001 ACS
AB A set of substituted bisguanidines have been prepd. and examd. for their ability to bind and catalyze the hydrolysis of uridylyl-3',5'-uridine (UpU), an unactivated RNA substrate in water. The unexpected result is that this set includes both catalysts (binding the transition state better than the ground state) and anticatalysts (binding the ground state better than the transition state), each with respectable rate enhancements and/or affinities, despite the fact that these mols. all have very similar structures. These results therefore show the level of sophistication that must be achieved in the conformational theory of small mols. if we hope to truly design supramol. structures that bind preferentially to a transition state over the ground state.
ACCESSION NUMBER: 1999:643337 CAPLUS
DOCUMENT NUMBER: 132:46384
TITLE: Catalysts, Anticatalysts, and Receptors for Unactivated Phosphate Diesters in Water
AUTHOR(S): Zepik, Helmut H.; Benner, Steven A.
CORPORATE SOURCE: Departments of Chemistry and Anatomy and Cell Biology, University of Florida, Gainesville, FL, 32611, USA
SOURCE: J. Org. Chem. (1999), 64(22), 8080-8083
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 132:46384
IT **3840-23-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of bisguanidines as catalysts, anticatalysts, and receptors for hydrolysis of unactivated phosphate diesters in water)
RN 3840-23-1 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis- (9CI) (CA INDEX NAME)



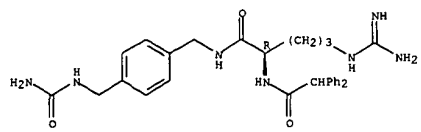
REFERENCE COUNT: 21
REFERENCE(S): (1) Albery, W; Biochemistry 1976, V15, P5631 CAPLUS
(2) Bates, R; J Res Natl Bureau Stand A 1960, V64A, P343 CAPLUS
(4) Ciglic, M; Biochemistry 1998, V37, P4008 CAPLUS
(7) Gross, R; Liebigs Ann Chem 1994, P49 CAPLUS
(8) Jermann, T; Nature 1995, V374, P57 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2001 ACS
AB To ascertain the role of the neuropeptide Y Y1 receptors in the vascular manifestations of the sympathetic baroreflex, 10-s bilateral carotid occlusions were performed in anesthetized cats; systemic blood pressure was monitored continually. This maneuver elevated systolic blood pressure by 23 mmHg. Following 100 .mu.g/kg BIBP 3226 or BIBO 3304 i.v., the increase in blood pressure elicited by the occlusions was only 14 and 15 mmHg, resp. Both BIBP 3226 and BIBO 3304 displaced significantly 5.5 fold rightward the pressor dose-response curve elicited by exogenous neuropeptide Y, without altering the norepinephrine curve. Prazosin (10 .mu.g/kg) reduced the pressor response elicited by the carotid occlusion to 12 mmHg. The simultaneous administration of BIBP 3226 plus prazosin elevated the systemic blood pressure following the occlusion only 9 mmHg, supporting the involvement of neuropeptide Y in vascular sympathetic reflexes.
ACCESSION NUMBER: 1999:527436 CAPLUS
DOCUMENT NUMBER: 131:223945
TITLE: The involvement of neuropeptide Y Y1 receptors in the blood pressure baroreflex: studies with BIBP 3226 and BIBO 3304
AUTHOR(S): Capurro, Daniel; Huidobro-Toro, J. Pablo
CORPORATE SOURCE: Neurohumoral Regulation Unit, Department of Physiology, Faculty of Biological Sciences, P. Catholic University of Chile, Santiago, 114-D, Chile
SOURCE: Eur. J. Pharmacol. (1999), 376(3), 251-255
CODEN: EJPHAZ; ISSN: 0014-2999
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **191868-14-1**, BIBO 3304
RL: BAC (Biological activity or effector, except adverse); BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(neuropeptide Y1 receptor antagonists effect on blood pressure baroreflex in anesthetized cats)
RN 191868-14-1 CAPLUS
CN Benzeneacetamide, N-[(1R)-1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenyl-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191868-13-0
CMF C29 H35 N7 O3

Absolute stereochemistry.



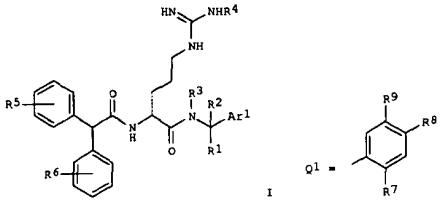
L21 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

CM 2

CRN 76-05-1
CMF C2 H F3 O2

REFERENCE COUNT: 19
REFERENCE(S): (1) Donoso, M; J Neurochem 1997, V69, P1048 CAPLUS
(2) Donoso, M; J Pharmacol Exp Ther 1997, V282, P691 CAPLUS
(4) Gulbenkian, S; Circ Res 1993, V73, P579 CAPLUS
(5) Han, S; Am J Physiol 1998, V274, PH290 CAPLUS
(7) Karasawa, A; J Pharmacobio-Dyn 1982, V5, P930 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2001 ACS
GI



I

AB Pharmaceutically useful title compds. I [Ar1 = Q1, 1-naphthyl, 2-naphthyl (un)substituted by OH, halo, C1-7 alkoxy; R1 = CONH2, C1-4 alkyl optionally substituted or terminated by one or more OH or amino groups; R1R7 = C2-3 alkylene; R4 = H, C1-7 alkyl, C1-4 alkyl-Ph wherein the Ph group may be substituted by one or more OH or C1-4 alkoxy groups; R5, R6 = independently H, OH, C1-4 alkyl, C1-4 alkoxy, halo; R7 = H, OH; R8 =H, halo, OH, C1-7 alkoxy, Ph, PhO, PhCH2O, (CH2)nCONR10R11, (CH2)nNHCONR10R11, O(CH2)nCO2R10; R9 = H, halo, OH, C1-7 alkoxy; R2, R3, R10, R11 = independently H, C1-7 alkyl; n = 1-4] and pharmaceutically *acceptable derivs. thereof, are provided which are useful as antagonists* of neuropeptide Y and in particular in the treatment of cardiovascular diseases, for example vasoconstriction. Thus, amidation of Boc-D-Orn(Cbz)-OH with (R)-4-methoxy-.alpha.-methylbenzylamine, followed by acidic N.alpha. deprotection, amidation with o-nitrophenyl diphenylacetate (prepn. given), hydrogenolysis, guanylation with N,N'-bis(benzyloxycarbonyl)-S-methylisothiourea and final hydrogenolysis gave desired title compd. I [R1 = (R)-Me; R2 = R3 = R4 = R5 = H; Ar1 = C6H4OMe-4]. All prepd. compds. I exhibit IC50 values of less than 5.0 .mu.M in a neuropeptide Y1 receptor assay.

ACCESSION NUMBER: 1999:222912 CAPLUS
DOCUMENT NUMBER: *130:252673*
TITLE: Preparation of diphenylacetylarginine amide derivatives as new neuropeptide Y antagonists
INVENTOR(S): Bergman, Nils-Ake; D'Ambra, Thomas; Pilling, Garry
PATENT ASSIGNEE(S): Astra Aktiebolag, Swed.
SOURCE: PCT Int. Appl., 140 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9915498	A1	19990401	WO 1998-SE1686	19980921

W: *AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,* DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG,

L21 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

ZA 9808353	A	19990323	ZA 1998-8353	19980911
AU 9892889	A1	19990412	AU 1998-92889	19980921
EP 1017672	A1	20000712	EP 1998-945708	19980921

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

BR 9812492	A	20000926	BR 1998-12492	19980921
JP 2001517651	T2	20011009	JP 2000-512808	19980921
US 6127414	A	20001003	US 1998-171779	19981026
NO 2000001483	A	20000523	NO 2000-1483	20000322

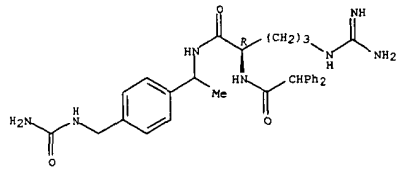
PRIORITY APPLN. INFO.: SE 1997-3414 A 19970923
WO 1998-SE1686 W 19980921

OTHER SOURCE(S): MARPAT 130:252673

IT **221667-13-6P 221667-17-0P 221667-78-3P 221667-82-9P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); *THU* (Therapeutic use); *BIOL* (Biological study); *PREP* (Preparation); USES (Uses)
(prepn. of diphenylacetylarginine amide derivs. as new neuropeptide Y antagonists)

RN 221667-13-6 CAPLUS
CN Benzeneacetamide,
N-[(1R)-1-[[[1-[4-[[(aminocarbonyl)amino]methyl]phenyl]e thyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



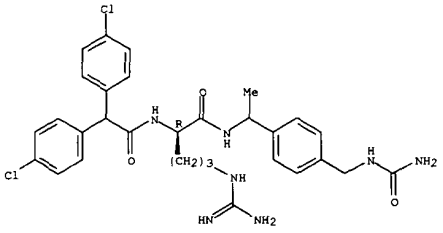
● HCl

RN 221667-17-0 CAPLUS
CN Benzeneacetamide,
N-[(1R)-1-[[[1-[4-[[(aminocarbonyl)amino]methyl]phenyl]e

thyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-4-chloro-.alpha.-(4-chlorophenyl)-, monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

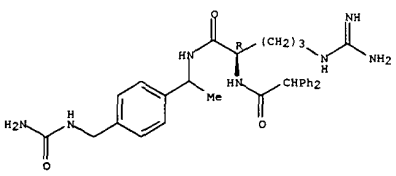
L21 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)



● HCl

RN 221667-78-3 CAPLUS
CN Benzeneacetamide,
N-[(1R)-1-[[[1-[4-[[(aminocarbonyl)amino]methyl]phenyl]e thyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

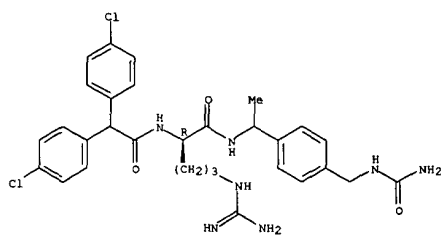


RN 221667-82-9 CAPLUS
CN Benzeneacetamide,
N-[(1R)-1-[[[1-[4-[[(aminocarbonyl)amino]methyl]phenyl]e

thyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-4-chloro-.alpha.-(4-chlorophenyl)- (9CI) (CA INDEX NAME)

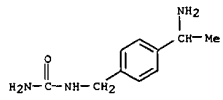
Absolute stereochemistry.

L21 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)



IT **221670-77-5**
RL: RCT (Reactant)
(prepn. of diphenylacetylarginine amide derivs. as new neuropeptide Y antagonists)

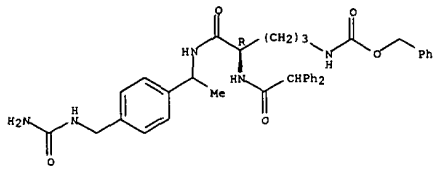
RN 221670-77-5 CAPLUS
CN Urea, [[4-(1-aminoethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



IT **221670-64-0P 221670-65-1P 221670-70-8P 221670-71-9P**
RL: RCT (Reactant); *SPN (Synthetic preparation); PREP (Preparation)*
(prepn. of diphenylacetylarginine amide derivs. as new neuropeptide Y antagonists)

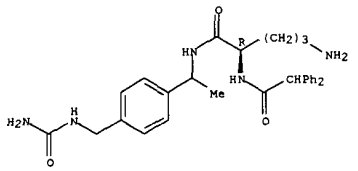
RN 221670-64-0 CAPLUS
CN Carbamic acid,
[(4R)-5-[[1-[4-[[(aminocarbonyl)amino]methyl]phenyl]ethyl]a mino]-4-[(diphenylacetyl)amino]-5-oxopentyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 221670-65-1 CAPLUS
CN Benzeneacetamide,
N-((1R)-4-amino-1-[[[1-[4-[[(aminocarbonyl)amino]methyl]
phenyl]ethyl]amino]carbonyl]butyl]-.alpha.-phenyl-, monohydrochloride
(9CI) (CA INDEX NAME)

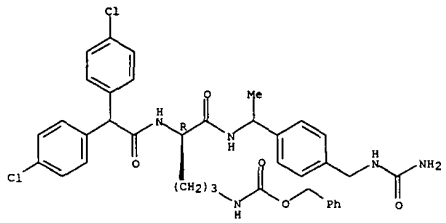
Absolute stereochemistry.



● HCl

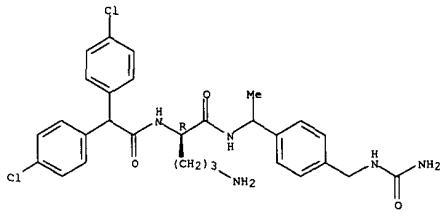
RN 221670-70-8 CAPLUS
CN Carbamic acid,
[(4R)-5-[[1-[4-[[(aminocarbonyl)amino]methyl]phenyl]ethyl]a
mino]-4-[[bis(4-chlorophenyl)acetyl]amino]-5-oxopentyl]-, phenylmethyl
ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 221670-71-9 CAPLUS
CN Benzeneacetamide,
N-((1R)-4-amino-1-[[[1-[4-[[(aminocarbonyl)amino]methyl]
phenyl]ethyl]amino]carbonyl]butyl]-4-chloro-.alpha.-(4-chlorophenyl)-,
monohydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

REFERENCE COUNT: 3
REFERENCE(S): (1) Karl Thomae Gmbh; WO 9417035 A1 1994 CAPLUS
(2) Karl Thomae Gmbh; WO 9719911 A1 1997 CAPLUS
(3) Karl Thomae Gmbh; WO 9719914 A1 1997 CAPLUS

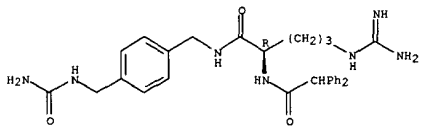
L21 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2001 ACS
AB The novel Y1-selective argininamide deriv. BIBO 3304 ((R)-N-[[4-

(aminocarbonylaminomethyl)-phenyl]methyl]-N2-(diphenylacetyl)-argininamide
trifluoroacetate) has been synthesized and was examd. for its subtype
selectivity, its in vitro antagonistic properties and its food intake
inhibitory properties. BIBO 3304 displayed subnanomolar affinity for
both
the human and the rat Y1 receptor (IC50 values 0.38.+-.0.06 nM and
0.72.+-.0.42 nM, resp.). The inactive enantiomer of BIBO 3304 (BIBO
3457)
had low affinity for both the human and rat Y1 receptor subtype
(IC50>1000
nM). BIBO 3304 showed low affinity for the human Y2 receptor, human and
rat Y4 receptor as well as for the human and rat Y5 receptor (IC50 values
> 1000 nM). 30 .mu.G BIBO 3304 administered into the paraventricular
nucleus inhibited the feeding response induced by 1 .mu.g NPY as well as
the hyperphagia induced by a 24 h fast implying a role for Y1 receptors
in
NPY mediated feeding. The inactive enantiomer had no effect. BIBO 3304
inhibits neither the galanin nor the noradrenaline induced orexigenic
response, but it blocked feeding behavior elicited by both [Leu31,
Pro34]NPY and NPY (3-36) suggesting an interplay between different NPY
receptor subtypes in feeding behavior. The present study reveals that
BIBO 3304 is a subtype selective nonpeptide antagonist with subnanomolar
affinity for the Y1 receptor subtype that significantly inhibits food
intake induced by application of NPY or by fasting.
ACCESSION NUMBER: 1998:680951 CAPLUS
DOCUMENT NUMBER: 130:64283
TITLE: Subtype selectivity of the novel nonpeptide
neuropeptide Y Y1 receptor antagonist BIBO 3304 and
its effect on feeding in rodents
AUTHOR(S): Wieland, H. A.; Engel, W.; Eberlein, W.; Rudolf, K.;
Doods, H. N.
CORPORATE SOURCE: Departments of Biology and Chemical Research,
Boehringer Ingelheim Pharma KG, Biberach an der Riss,
88397, Germany
SOURCE: Br. J. Pharmacol. (1998), 125(3), 549-555
CODEN: BJPCBM; ISSN: 0007-1188
PUBLISHER: Stockton Press
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **191868-14-1P**, BIBO 3304 **217977-06-5P**, BIBO 3457
RL: BAC (Biological activity or effector, except adverse); BUU
(Biological
use, unclassified); SPN (Synthetic preparation); BIOL (Biological study);
PREP (Preparation); USES (Uses)
(subtype selectivity of the novel nonpeptide neuropeptide Y Y1
receptor
antagonist BIBO 3304 and its effect on feeding in rodents)
RN 191868-14-1 CAPLUS
CN Benzeneacetamide,
N-[(1R)-1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]met
hyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenyl-,
mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191868-13-0
CMF C29 H35 N7 O3

Absolute stereochemistry.



CM 2

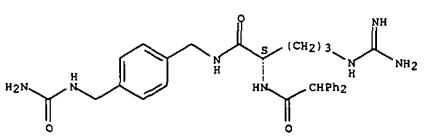
CRN 76-05-1
CMF C2 H F3 O2

RN 217977-06-5 CAPLUS
CN Benzeneacetamide,
N-[(1S)-1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]met
hyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenyl-,
mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 217977-05-4
CMF C29 H35 N7 O3

Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H F3 O2

L21 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

REFERENCE COUNT: 39
REFERENCE(S):
(1) Aakerlund, L; FEBS Lett 1990, V260, P73 CAPLUS
(2) Balasubramaniam, A; Peptides 1997, V18, P445 CAPLUS
(3) Bard, J; J Biol Chem 1995, V270, P26762 CAPLUS
(4) Bing, C; Biochem Soc Trans 1996, V24, P559 CAPLUS
(6) Corp, E; Am J Physiol 1990, V259, PR317 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS

AB Title compds. T-Z-CONHCH(CH2B)CO-Y-(CH2)nR [I; T = (un)substituted Ph, naphthyl, heteroarom., N, O, S, or T1TC2U; T1, T2 = (un)substituted Ph; U = H, alkoxy, OPh; Z = bond, O, NH, CH2, CH2CH2, CH2O, CH2NH; B = amidine-contg. group; Y = O, NR1; R1 = H, (un)substituted alkyl, CH2Ph; n = 1-3; R = (un)substituted Ph], neuropeptide Y antagonists, were prepd. Thus, (R)-R2NHC(:NH)NH(CH2)3CH(NHR3)CONHR4 [II; R2 = 2,2,5,7,8-pentamethylchroman-6-sulfonyl (Pmc); R3, = Fmoc; R4 = CH2C6H4CH2NHCO2CH2Ph-4] was prepd. from Fmoc-D-Arg(Pmc)OH and 4-PhCH2O2CNHCH2C6H4CH2CONH2, Fmoc-deprotected, and diphenylacetylated, to give II (R2 = Pmc; R3 = COCHPh2; R4 = CH2C6H4CH2NH2-4), which was N-acetylated and deprotected to give II-trifluoroacetate (R2 = H; R3 = COCHPh2; R4 = CH2C6H4CH2NHAc-4). I showed activity as neuropeptide Y antagonists in both in vitro (at 10-8 to 10-5 M) and in vivo tests (at 0.001 to 10 mg/kg).

ACCESSION NUMBER: 1997:473595 CAPLUS
DOCUMENT NUMBER: 127:81788
TITLE: Preparation of amino acid derivatives as neuropeptide Y antagonists
INVENTOR(S): Engel, Wolfhard; Eberlein, Wolfgang; Rudolf, Klaus; Doods, Henri; Wieland, Heike-Andrea; Willim, Klaus-Dieter; Entzeroth, Michael; Wienen, Wolfgang
PATENT ASSIGNEE(S): Dr. Karl Thomae Gmbh, Germany
SOURCE: Ger. Offen., 117 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19544687	A1	19970605	DE 1995-19544687	19951130
WO 9719911	A1	19970605	WO 1996-EP5222	19961126
W: CA, JP, MX, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 885186	A1	19981223	EP 1996-941032	19961126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2000501390	T2	20000208	JP 1997-520166	19961126
US 6114390	A	20000905	US 1997-950113	19971014

PRIORITY APPLN. INFO.: DE 1995-19544687 A 19951130
WO 1996-EP5222 W 19961126
US 1998-945048 A 19980210

OTHER SOURCE(S): MARPAT 127:81788

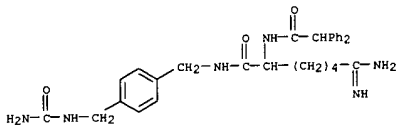
IT **191871-87-1P**
RL: BAC (Biological activity or effector, except adverse); RCT (Reactant);
SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of amino acid derivs. as neuropeptide Y antagonists)

RN 191871-87-1 CAPLUS
CN Benzeneacetamide, N-[6-amino-1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-6-iminohexyl]-.alpha.-phenyl-, diacetate (9CI) (CA INDEX NAME)

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

CM 1

CRN 191871-86-0
CMF C30 H36 N6 O3



CM 2

CRN 64-19-7
CMF C2 H4 O2

IT **191868-13-0P 191868-14-1P 191868-30-1P**
191868-31-2P 191868-34-5P 191868-50-5P
191868-51-6P 191868-53-8P 191868-70-9P
191868-71-0P 191868-73-2P 191868-74-3P
191868-76-5P 191868-77-6P 191868-79-8P
191868-80-1P 191868-95-8P 191868-96-9P
191868-99-2P 191869-00-8P 191869-02-0P
191869-03-1P 191869-06-4P 191869-07-5P
191869-10-0P 191869-11-1P 191869-13-3P
191869-14-4P 191869-34-8P 191869-35-9P
191870-04-9P 191870-05-0P 191870-07-2P
191870-08-3P 191870-10-7P 191870-11-8P
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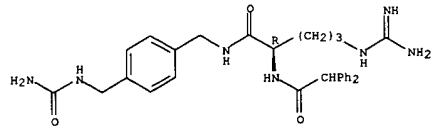
191870-43-6P 191870-55-0P 191870-66-3P
191870-67-4P 191870-71-0P 191870-72-1P
191870-80-1P 191870-82-3P 191870-83-4P
191870-85-6P 191870-86-7P 191870-88-9P
191870-89-0P 191870-91-4P 191870-92-5P
191870-94-7P 191870-95-8P 191870-97-0P
191870-98-1P 191871-00-8P 191871-01-9P
191871-03-1P 191871-04-2P 191871-06-4P
191871-07-5P 191871-09-7P 191871-10-0P
191871-12-2P 191871-13-3P 191871-16-6P
191871-17-7P 191871-31-5P 191871-47-3P
191871-48-4P 191871-49-5P 191871-53-1P
191871-54-2P 191871-63-3P 191871-64-4P
191871-66-6P 191871-67-7P 191871-80-4P
191871-86-0P 191871-88-2P 191872-02-3P
191872-03-4P 191872-04-5P 191872-05-6P
191872-07-8P 191872-08-9P 191872-10-3P
191872-11-4P 191872-26-1P 191872-27-2P

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

191872-38-5P 191872-39-6P 191872-49-8P
191872-50-1P 191872-52-3P 191872-55-6P
191872-56-7P 191872-61-4P 191872-62-5P
191872-68-1P 191872-69-2P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of amino acid derivs. as neuropeptide Y antagonists)

RN 191868-13-0 CAPLUS
CN Benzeneacetamide, N-[(1R)-1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenyl-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

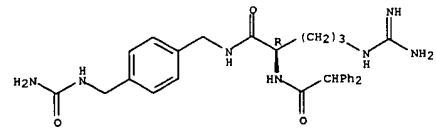


RN 191868-14-1 CAPLUS
CN Benzeneacetamide, N-[(1R)-1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenyl-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191868-13-0
CMF C29 H35 N7 O3

Absolute stereochemistry.

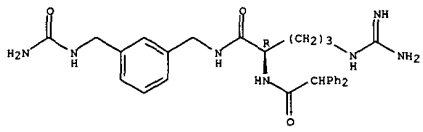


CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 191868-30-1 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[3-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenyl-, (R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

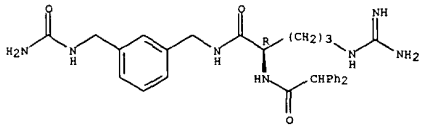


RN 191868-31-2 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[3-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenyl-, (R)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

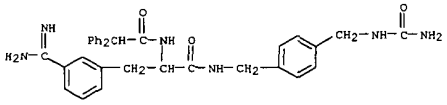
CRN 191868-30-1
CMF C29 H35 N7 O3

Absolute stereochemistry.



CM 2

CRN 64-19-7
CMF C2 H4 O2

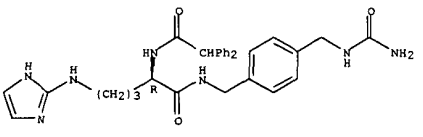


CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191868-53-8 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-(1H-imidazol-2-ylamino)butyl]-.alpha.-phenyl-, monohydriodide, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

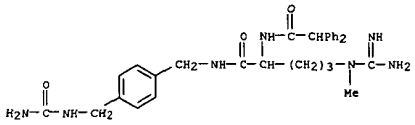


● HI

RN 191868-70-9 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-3,4-dichloro-, (R)-(9CI) (CA INDEX NAME)

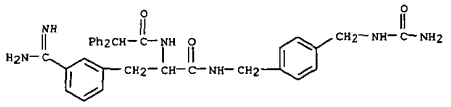
Absolute stereochemistry.

RN 191868-34-5 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)methylamino]butyl]-.alpha.-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

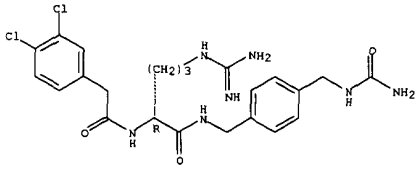
RN 191868-50-5 CAPLUS
CN Benzenepropanamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-3-(aminoiminomethyl)-.alpha.-[(diphenylacetyl)amino]- (9CI) (CA INDEX NAME)



RN 191868-51-6 CAPLUS
CN Benzenepropanamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-3-(aminoiminomethyl)-.alpha.-[(diphenylacetyl)amino]-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191868-50-5
CMF C33 H34 N6 O3

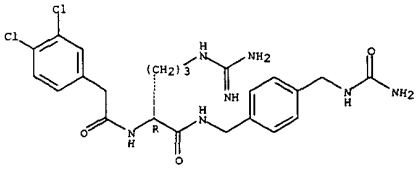


RN 191868-71-0 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-3,4-dichloro-, (R)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191868-70-9
CMF C23 H29 Cl2 N7 O3

Absolute stereochemistry.



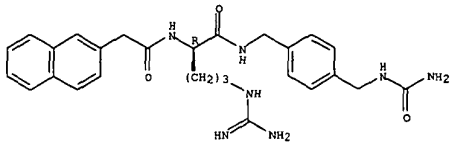
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 191868-73-2 CAPLUS
CN 2-Naphthaleneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-, (R)- (9CI) (CA

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
INDEX NAME)

Absolute stereochemistry.

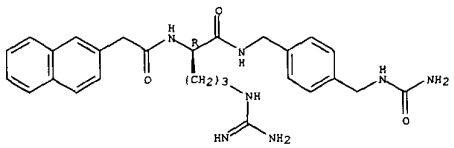


RN 191868-74-3 CAPLUS
CN 2-Naphthaleneacetamide,
N-[1-[[[[4-[[[aminocarbonyl]amino]methyl]phenyl]me
thyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-, (R)-,
mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191868-73-2
CMF C27 H33 N7 O3

Absolute stereochemistry.



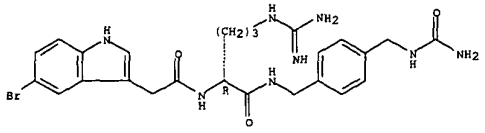
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 191868-76-5 CAPLUS
CN 1H-Indole-3-acetamide,
N-[1-[[[4-[[(aminocarbonyl)amino]methyl]phenyl]met
hyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-5-bromo-, (R)-
(9CI)

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
(CA INDEX NAME)

Absolute stereochemistry.

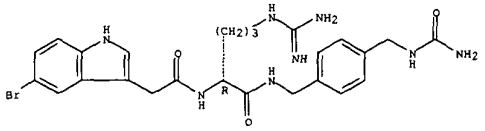


RN 191868-77-6 CAPLUS
CN 1H-Indole-3-acetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]met
hyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-5-bromo-, (R)-,
mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191868-76-5
CMF C25 H31 Br N8 O3

Absolute stereochemistry.



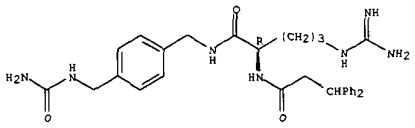
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 191868-79-8 CAPLUS
CN Benzenepropanamide,
N-[1-[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl
]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.beta.-phenyl-, (R)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

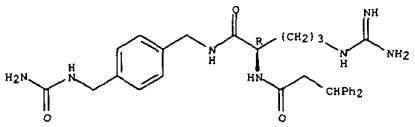


RN 191868-80-1 CAPLUS
CN Benzenepropanamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl
]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.beta.-phenyl-, (R)-,
mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191868-79-8
CMF C30 H37 N7 O3

Absolute stereochemistry.



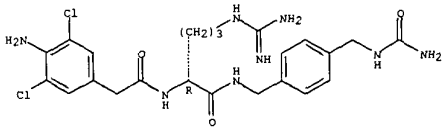
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 191868-95-8 CAPLUS
CN Benzeneacetamide,
4-amino-N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]
methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-3,5-dichloro-,
(R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

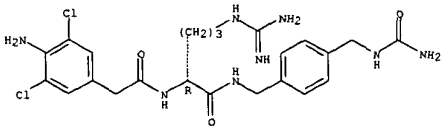


RN 191868-96-9 CAPLUS
CN Benzeneacetamide,
4-amino-N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]
methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-3,5-dichloro-,
(R)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191868-95-8
CMF C23 H30 Cl2 N8 O3

Absolute stereochemistry.



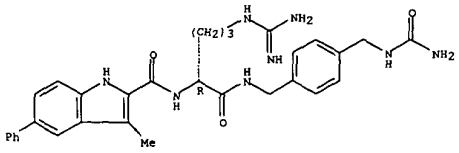
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 191868-99-2 CAPLUS
CN 1H-Indole-2-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m

ethyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-3-methyl-5-phenyl-
, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



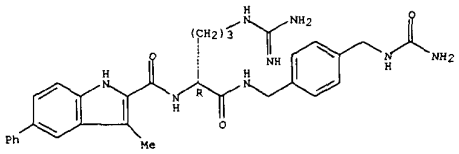
RN 191869-00-8 CAPLUS
CN 1H-Indole-2-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m

ethyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-3-methyl-5-phenyl-
, (R)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191868-99-2
CMF C31 H36 N8 O3

Absolute stereochemistry.

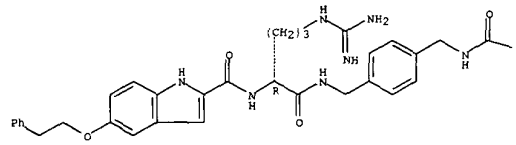


CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 191869-02-0 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-4-(benzoylamino)-, (R)-
(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

RN 191869-07-5 CAPLUS
CN 1H-Indole-2-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m

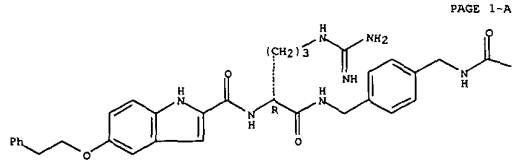
ethyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-5-(2-phenylethoxy)-
, (R)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191869-06-4
CMF C32 H38 N8 O4

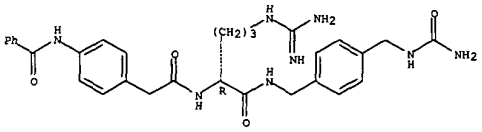
Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

Absolute stereochemistry.

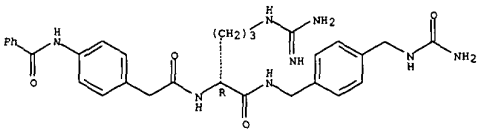


RN 191869-03-1 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-4-(benzoylamino)-, (R)-,
mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191869-02-0
CMF C30 H36 N8 O4

Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 191869-06-4 CAPLUS
CN 1H-Indole-2-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m

ethyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-5-(2-phenylethoxy)-
, (R)- (9CI) (CA INDEX NAME)

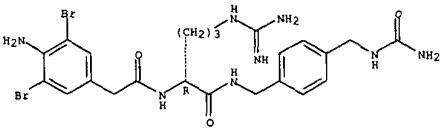
Absolute stereochemistry.

CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 191869-10-0 CAPLUS
CN Benzeneacetamide,
4-amino-N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]
methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-3,5-dibromo-,
(R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

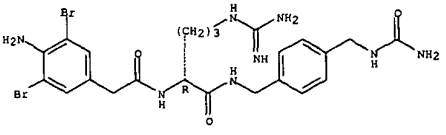


RN 191869-11-1 CAPLUS
CN Benzeneacetamide,
4-amino-N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]
methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-3,5-dibromo-,
(R)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191869-10-0
CMF C23 H30 Br2 N8 O3

Absolute stereochemistry.



CM 2

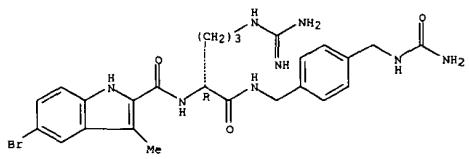
L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

CRN 76-05-1
CMF C2 H F3 O2

RN 191869-13-3 CAPLUS
CN 1H-Indole-2-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m

ethyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-5-bromo-3-methyl-,
(R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



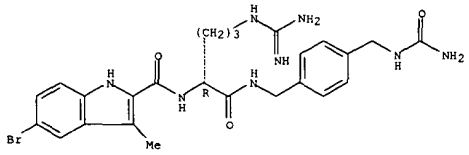
RN 191869-14-4 CAPLUS
CN 1H-Indole-2-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m

ethyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-5-bromo-3-methyl-,
(R)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191869-13-3
CMF C25 H31 Br N8 O3

Absolute stereochemistry.



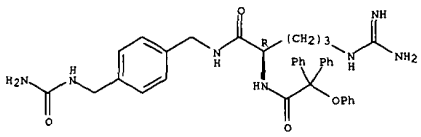
L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 191869-34-8 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenoxy-.alpha.-
phenyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

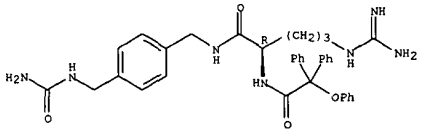


RN 191869-35-9 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenoxy-.alpha.-
phenyl-, (R)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191869-34-8
CMF C35 H39 N7 O4

Absolute stereochemistry.



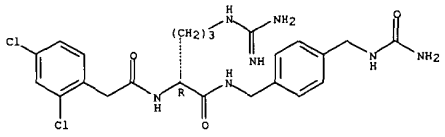
CM 2

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

CRN 76-05-1
CMF C2 H F3 O2

RN 191870-04-9 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-2,4-dichloro-, (R)-
(9CI)
(CA INDEX NAME)

Absolute stereochemistry.

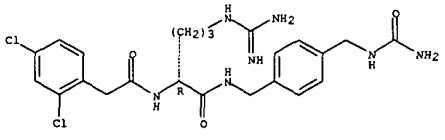


RN 191870-05-0 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-2,4-dichloro-, (R)-,
mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191870-04-9
CMF C23 H29 Cl2 N7 O3

Absolute stereochemistry.



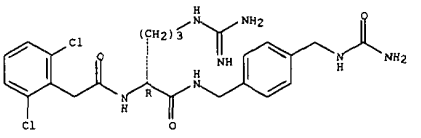
CM 2

CRN 76-05-1
CMF C2 H F3 O2

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 191870-07-2 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-2,6-dichloro-, (R)-
(9CI)
(CA INDEX NAME)

Absolute stereochemistry.

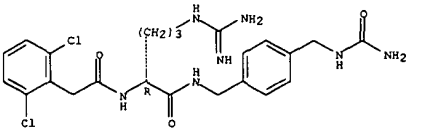


RN 191870-08-3 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-2,6-dichloro-, (R)-,
mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191870-07-2
CMF C23 H29 Cl2 N7 O3

Absolute stereochemistry.

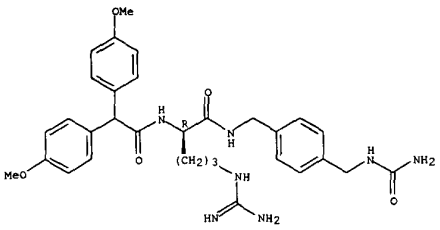


CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 191870-10-7 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-4-methoxy-.alpha.-(4-methoxyphenyl)-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

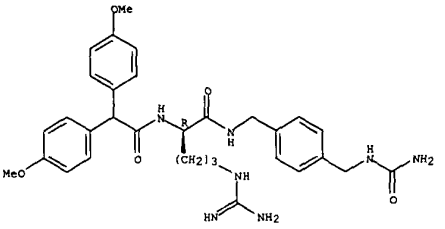


RN 191870-11-8 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-4-methoxy-.alpha.-(4-methoxyphenyl)-, (R)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191870-10-7
CMF C31 H39 N7 O5

Absolute stereochemistry.

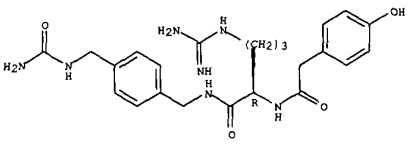


CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191870-13-0 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-4-hydroxy-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



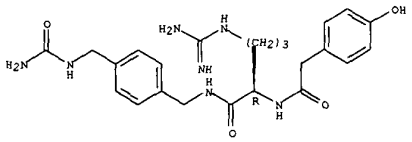
RN 191870-14-1 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-4-hydroxy-, (R)-, monoacetate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 191870-13-0

CMF C23 H31 N7 O4

Absolute stereochemistry.

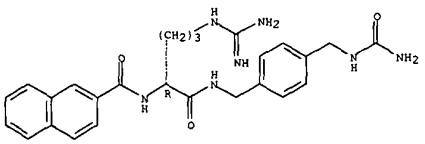


CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191870-42-5 CAPLUS
CN 2-Naphthalenecarboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

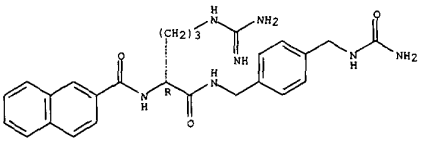


RN 191870-43-6 CAPLUS
CN 2-Naphthalenecarboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-, (R)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191870-42-5
CMF C26 H31 N7 O3

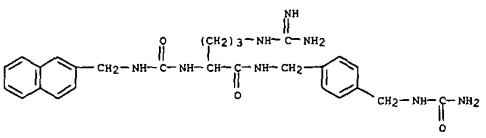
Absolute stereochemistry.



CM 2

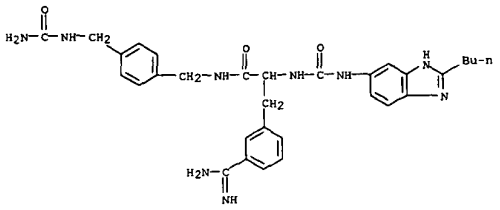
CRN 64-19-7
CMF C2 H4 O2

RN 191870-55-0 CAPLUS
CN Pentanamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-5-[(aminoiminomethyl)amino]-2-[[[(2-naphthalenylmethyl)amino]carbonyl]amino]- (9CI) (CA INDEX NAME)



RN 191870-66-3 CAPLUS
CN Benzenepropanamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-3-(aminoiminomethyl)-.alpha.-[[[(2-butyl-1H-benzimidazol-5-yl)amino]carbonyl]amino]- (9CI) (CA INDEX NAME)

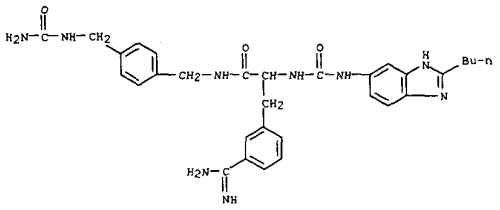
L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 191870-67-4 CAPLUS
CN Benzenepropanamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-3-(*aminoiminomethyl*)-.alpha.-[[[(2-butyl-1*H*-benzimidazol-5-yl)amino]carbonyl]amino]-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191870-66-3
CMF C31 H37 N9 O3



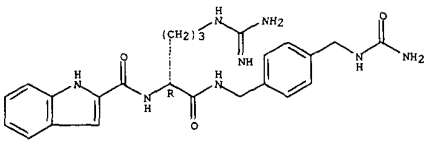
CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191870-71-0 CAPLUS
CN Pentanamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-5-

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
RN 191870-80-1 CAPLUS
CN 1H-Indole-2-carboxamide, N-[1-[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-, monohydrochloride, (R)- (9CI) (CA INDEX NAME)

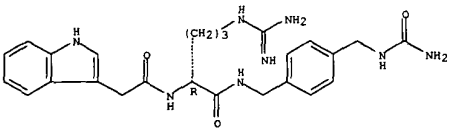
Absolute stereochemistry.



● HCl

RN 191870-82-3 CAPLUS
CN 1H-Indole-3-acetamide, N-[1-[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 191870-83-4 CAPLUS
CN 1H-Indole-3-acetamide, N-[1-[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-, (R)-, monoacetate (9CI) (CA INDEX NAME)

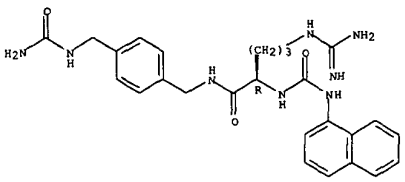
CM 1

CRN 191870-82-3
CMF C25 H32 N8 O3

Absolute stereochemistry.

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
[(aminoiminomethyl)amino]-2-[[[(1-naphthalenylamino)carbonyl]amino]-, (R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

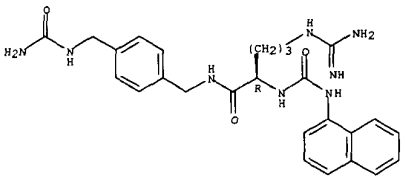


RN 191870-72-1 CAPLUS
CN Pentanamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-5-[(aminoiminomethyl)amino]-2-[[[(1-naphthalenylamino)carbonyl]amino]-, (R)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191870-71-0
CMF C26 H32 N8 O3

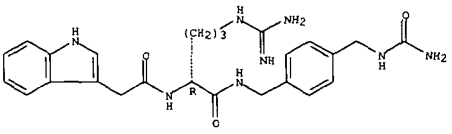
Absolute stereochemistry.



CM 2

CRN 64-19-7
CMF C2 H4 O2

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

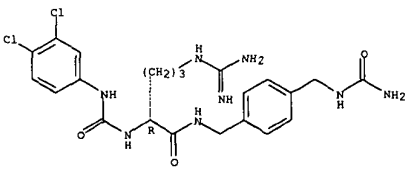


CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191870-85-6 CAPLUS
CN Pentanamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-5-[(aminoiminomethyl)amino]-2-[[[(3,4-dichlorophenyl)amino]carbonyl]amino]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

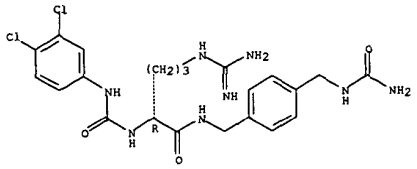


RN 191870-86-7 CAPLUS
CN Pentanamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-5-[(aminoiminomethyl)amino]-2-[[[(3,4-dichlorophenyl)amino]carbonyl]amino]-, (R)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191870-85-6
CMF C22 H28 Cl2 N8 O3

Absolute stereochemistry.

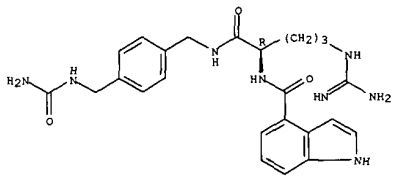


CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 191870-88-9 CAPLUS
CN 1H-Indole-4-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m
ethyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-, (R)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.



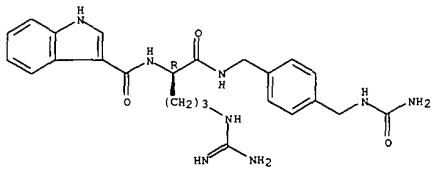
RN 191870-89-0 CAPLUS
CN 1H-Indole-4-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m
ethyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-, (R)-,
monoacetate (9CI) (CA INDEX NAME)

CM 1

CM 1

CRN 191870-91-4
CMF C24 H30 N8 O3

Absolute stereochemistry.

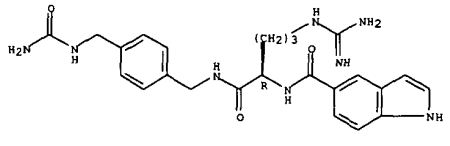


CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191870-94-7 CAPLUS
CN 1H-Indole-5-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m
ethyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-, (R)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

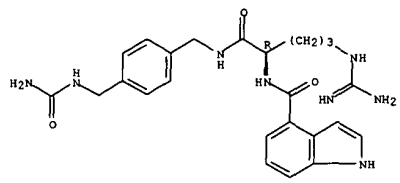


RN 191870-95-8 CAPLUS
CN 1H-Indole-5-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m
ethyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-, (R)-,
monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191870-88-9
CMF C24 H30 N8 O3

Absolute stereochemistry.

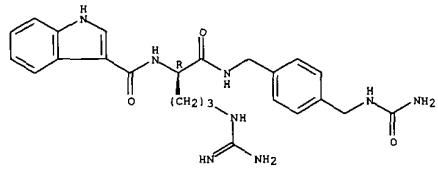


CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191870-91-4 CAPLUS
CN 1H-Indole-3-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m
ethyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-, (R)- (9CI) (CA
INDEX NAME)

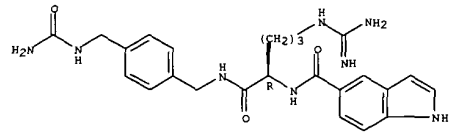
Absolute stereochemistry.



RN 191870-92-5 CAPLUS
CN 1H-Indole-3-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m
ethyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-, (R)-,
monoacetate (9CI) (CA INDEX NAME)

CRN 191870-94-7
CMF C24 H30 N8 O3

Absolute stereochemistry.

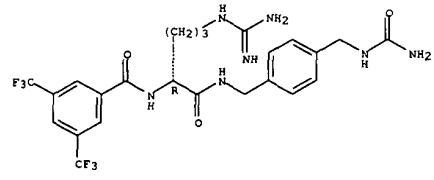


CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191870-97-0 CAPLUS
CN Benzamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]ca
rbonyl]-4-[(aminoiminomethyl)amino]butyl]-3,5-bis(trifluoromethyl)-, (R)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

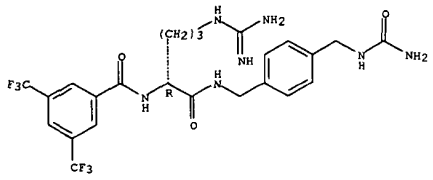


RN 191870-98-1 CAPLUS
CN Benzamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]ca
rbonyl]-4-[(aminoiminomethyl)amino]butyl]-3,5-bis(trifluoromethyl)-,
(R)-,
monoacetate (9CI) (CA INDEX NAME)

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
CM 1

CRN 191870-97-0
CMF C24 H27 F6 N7 O3

Absolute stereochemistry.

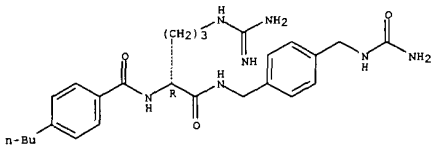


CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191871-00-8 CAPLUS
CN Benzamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-4-butyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

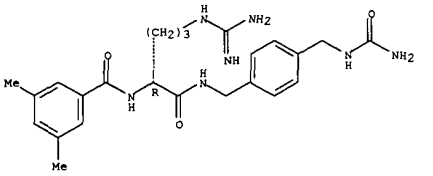


RN 191871-01-9 CAPLUS
CN Benzamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-4-butyl-, (R)-, monoacetate (9CI) (CA INDEX NAME)

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
CM 1

CRN 191871-03-1
CMF C24 H33 N7 O3

Absolute stereochemistry.

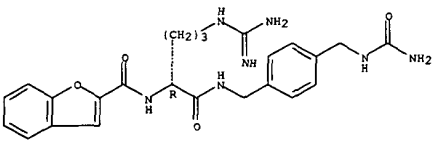


CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191871-06-4 CAPLUS
CN 2-Benzofurancarboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

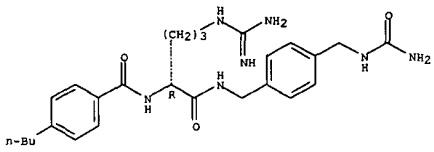


RN 191871-07-5 CAPLUS
CN 2-Benzofurancarboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-, (R)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191871-00-8
CMF C26 H37 N7 O3

Absolute stereochemistry.

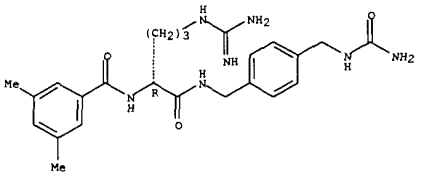


CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191871-03-1 CAPLUS
CN Benzamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-3,5-dimethyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

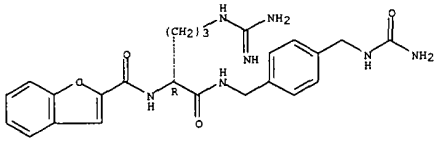


RN 191871-04-2 CAPLUS
CN Benzamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-3,5-dimethyl-, (R)-, monoacetate (9CI) (CA INDEX NAME)

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

CRN 191871-06-4
CMF C24 H29 N7 O4

Absolute stereochemistry.

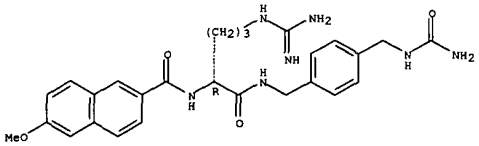


CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191871-09-7 CAPLUS
CN 2-Naphthalenecarboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-6-methoxy-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



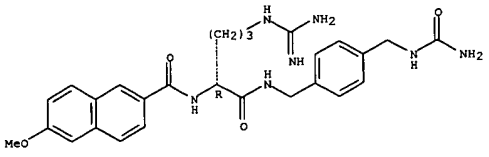
RN 191871-10-0 CAPLUS
CN 2-Naphthalenecarboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-6-methoxy-, (R)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191871-09-7

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
CMF C27 H33 N7 O4

Absolute stereochemistry.



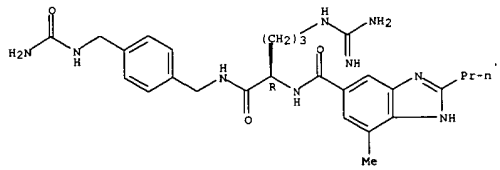
CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191871-12-2 CAPLUS
CN 1H-Benzimidazole-5-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]p

henyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-7-methyl-2-
propyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 191871-13-3 CAPLUS
CN 1H-Benzimidazole-5-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]p

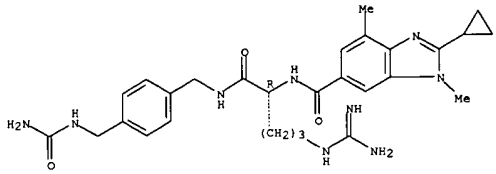
henyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-7-methyl-2-
propyl-, (R)-, diacetate (9CI) (CA INDEX NAME)

CM 1

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

CRN 191871-16-6
CMF C28 H37 N9 O3

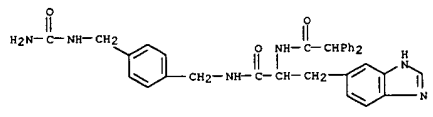
Absolute stereochemistry.



CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191871-31-5 CAPLUS
CN 1H-Benzimidazole-5-propanamide,
N-[[4-[[(aminocarbonyl)amino]methyl]phenyl
]methyl]-.alpha.-[(diphenylacetyl)amino]-, monohydrochloride (9CI) (CA
INDEX NAME)



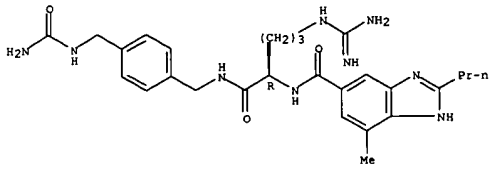
● HCl

RN 191871-47-3 CAPLUS
CN 1H-Indole-1-acetic acid,
3-[2-[[1-[[[[4-[[(aminocarbonyl)amino]methyl]phen
yl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]amino]-2-
oxoethyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
CRN 191871-12-2
CMF C27 H37 N9 O3

Absolute stereochemistry.

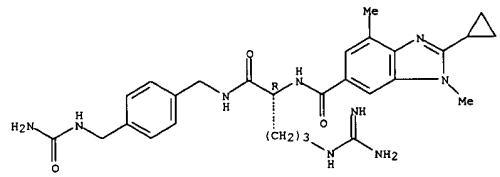


CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191871-16-6 CAPLUS
CN 1H-Benzimidazole-6-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]p
henyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-2-
cyclopropyl-1,4-dimethyl-, (R)- (9CI) (CA INDEX NAME)

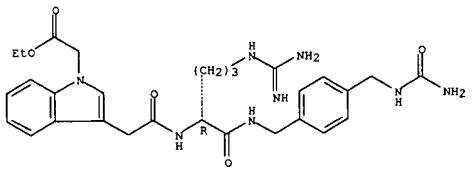
Absolute stereochemistry.



RN 191871-17-7 CAPLUS
CN 1H-Benzimidazole-6-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]p
henyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-2-
cyclopropyl-1,4-dimethyl-, (R)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

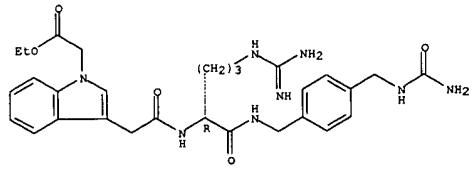


RN 191871-48-4 CAPLUS
CN 1H-Indole-1-acetic acid,
3-[2-[[1-[[[[4-[[(aminocarbonyl)amino]methyl]phen
yl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]amino]-2-
oxoethyl]-, ethyl ester, (R)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191871-47-3
CMF C29 H38 N8 O5

Absolute stereochemistry.

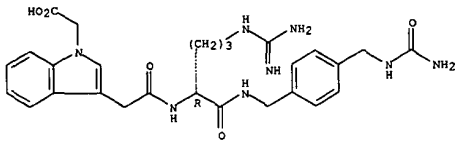


CM 2

CRN 64-19-7
CMF C2 H4 O2

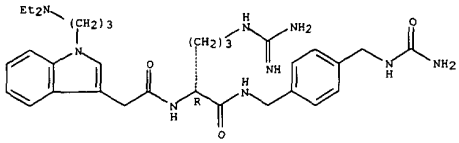
RN 191871-49-5 CAPLUS
CN 1H-Indole-1-acetic acid,
3-[2-[[1-[[[[4-[[(aminocarbonyl)amino]methyl]phen
yl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]amino]-2-
oxoethyl]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 191871-53-1 CAPLUS
CN 1H-Indole-3-acetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]met
hyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-1-[3-
(diethylamino)propyl]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

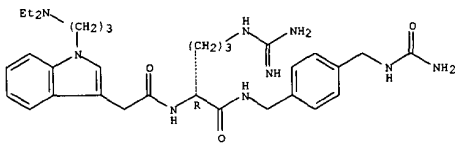


RN 191871-54-2 CAPLUS
CN 1H-Indole-3-acetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]met
hyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-1-[3-
(diethylamino)propyl]-, (R)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

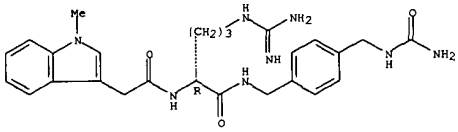
CRN 191871-53-1
CMF C32 H47 N9 O3

Absolute stereochemistry.



RN 191871-66-6 CAPLUS
CN 1H-Indole-3-acetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]met
hyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-1-methyl-, (R)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

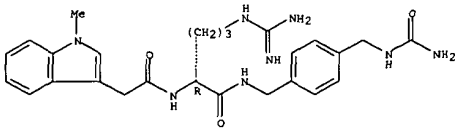


RN 191871-67-7 CAPLUS
CN 1H-Indole-3-acetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]met
hyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-1-methyl-, (R)-,
monoacetate (9CI) (CA INDEX NAME)

CM 1

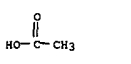
CRN 191871-66-6
CMF C26 H34 N8 O3

Absolute stereochemistry.



CM 2

CRN 64-19-7
CMF C2 H4 O2

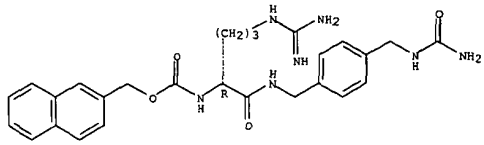


CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191871-63-3 CAPLUS
CN Carbamic acid,
[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]
carbonyl]-4-[(aminoiminomethyl)amino]butyl]-, 2-naphthalenylmethyl ester,
(R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

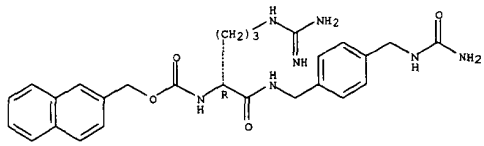


RN 191871-64-4 CAPLUS
CN Formic acid, compd. with (R)-2-naphthalenylmethyl [1-[[[[4-
[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-
[(aminoiminomethyl)amino]butyl]carbamate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 191871-63-3
CMF C27 H33 N7 O4

Absolute stereochemistry.

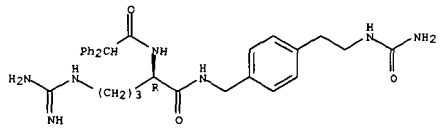


CM 2

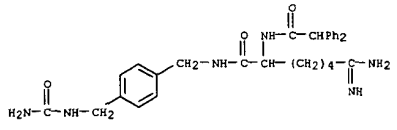
CRN 64-18-6
CMF C H2 O2

RN 191871-80-4 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[2-[(aminocarbonyl)amino]ethyl]phenyl]methyl]
amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-.alpha.-phenyl-, (R)-
(9CI) (CA INDEX NAME)

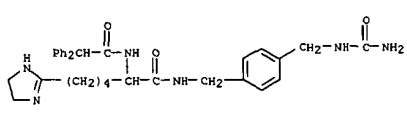
Absolute stereochemistry.



RN 191871-86-0 CAPLUS
CN Benzeneacetamide,
N-[6-amino-1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]
methyl]amino]carbonyl]-6-iminohexyl]-.alpha.-phenyl- (9CI) (CA INDEX
NAME)

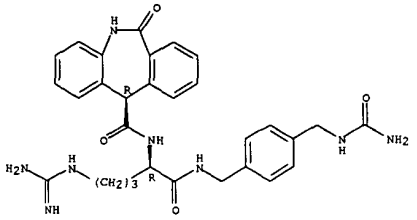


RN 191871-88-2 CAPLUS
CN 1H-Imidazole-2-hexanamide,
N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]meth
yl]-.alpha.-[(diphenylacetyl)amino]-4,5-dihydro- (9CI) (CA INDEX NAME)



RN 191872-02-3 CAPLUS
CN 5H-Dibenz[b,e]azepine-11-carboxamide, N-[1-[[[[4-
[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-
[(aminoiminomethyl)amino]butyl]-6,11-dihydro-6-oxo-, [R-(R*,R*)]- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

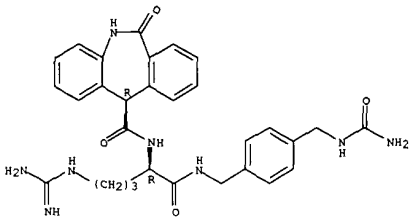


RN 191872-03-4 CAPLUS
CN 5H-Dibenz[b,e]azepine-11-carboxamide, N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-6,11-dihydro-6-oxo-, [R-(R*,R*)]-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191872-02-3
CMF C30 H34 N8 O4

Absolute stereochemistry.



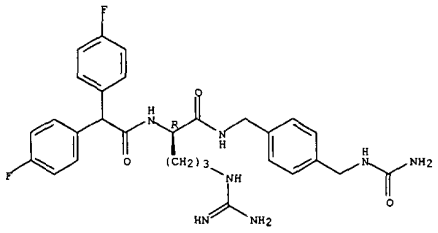
CM 2

CRN 64-19-7
CMF C2 H4 O2

CRN 64-19-7
CMF C2 H4 O2

RN 191872-07-8 CAPLUS
CN Benzeneacetamide, N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-4-fluoro-.alpha.-(4-fluorophenyl)-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 191872-08-9 CAPLUS
CN Benzeneacetamide, N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-4-fluoro-.alpha.-(4-fluorophenyl)-, (R)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

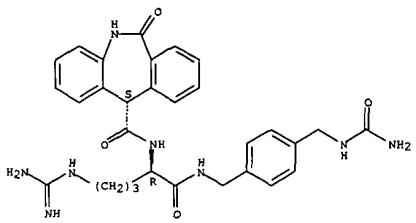
CM 1

CRN 191872-07-8
CMF C29 H33 F2 N7 O3

Absolute stereochemistry.

RN 191872-04-5 CAPLUS
CN 5H-Dibenz[b,e]azepine-11-carboxamide, N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-6,11-dihydro-6-oxo-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

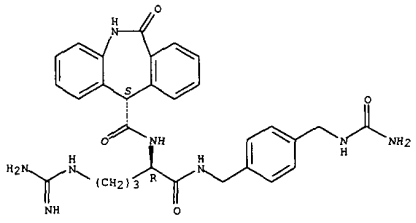


RN 191872-05-6 CAPLUS
CN 5H-Dibenz[b,e]azepine-11-carboxamide, N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-6,11-dihydro-6-oxo-, [R-(R*,S*)]-, monoacetate (9CI) (CA INDEX NAME)

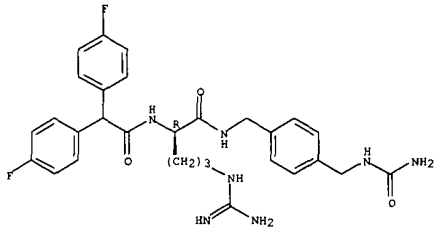
CM 1

CRN 191872-04-5
CMF C30 H34 N8 O4

Absolute stereochemistry.



CM 2

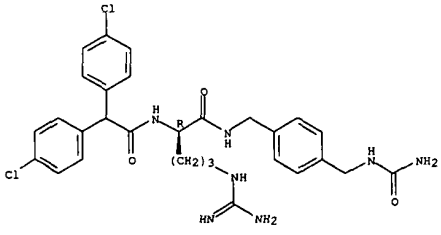


CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 191872-10-3 CAPLUS
CN Benzeneacetamide, N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-4-chloro-.alpha.-(4-chlorophenyl)-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 191872-11-4 CAPLUS

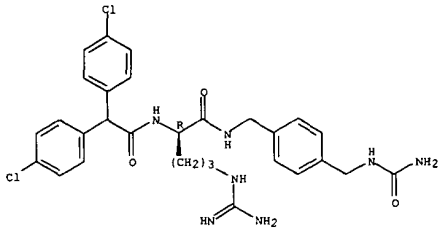
L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-4-chloro-.alpha.-(4-
chlorophenyl)-, (R)-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 191872-10-3
CMF C29 H33 Cl2 N7 O3

Absolute stereochemistry.



CM 2

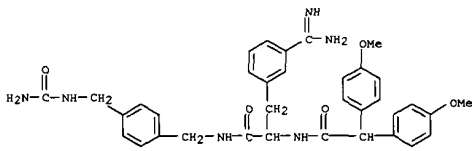
CRN 76-05-1
CMF C2 H F3 O2

RN 191872-26-1 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-4-hydroxy-.alpha.-(4-
hydroxyphenyl)-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

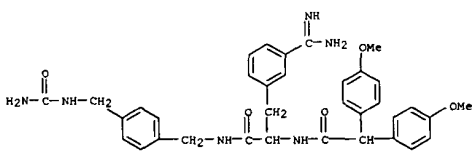
RN 191872-38-5 CAPLUS
CN Benzenepropanamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-3-
(aminoiminomethyl)-.alpha.-[[bis(4-methoxyphenyl)acetyl]amino]- (9CI)
(CA
INDEX NAME)



RN 191872-39-6 CAPLUS
CN Benzenepropanamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-3-
(aminoiminomethyl)-.alpha.-[[bis(4-methoxyphenyl)acetyl]amino]-,
monoacetate (9CI) (CA INDEX NAME)

CM 1

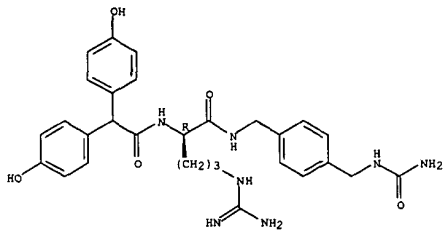
CRN 191872-38-5
CMF C35 H38 N6 O5



CM 2

CRN 64-19-7
CMF C2 H4 O2

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

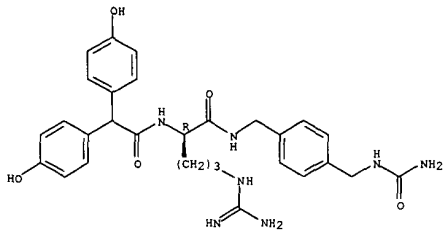


RN 191872-27-2 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-4-hydroxy-.alpha.-(4-
hydroxyphenyl)-, (R)-, mono(trifluoroacetate) (salt) (9CI) (CA INDEX
NAME)

CM 1

CRN 191872-26-1
CMF C29 H35 N7 O5

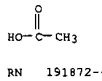
Absolute stereochemistry.



CM 2

CRN 76-05-1
CMF C2 H F3 O2

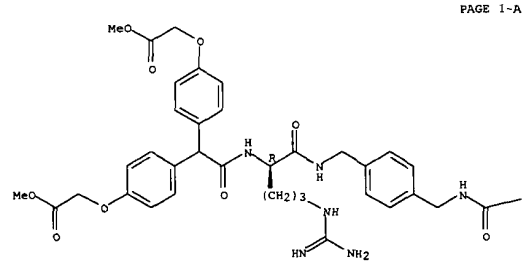
L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 191872-49-8 CAPLUS
CN Acetic acid,
2,2'-[[2-[[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methy
l]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]amino]-2-
oxoethylidene]bis(4,1-phenyleneoxy)]bis-, dimethyl ester, (R)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

RN 191872-50-1 CAPLUS
CN Acetic acid,
2,2'-[[2-[[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methy
l]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]amino]-2-

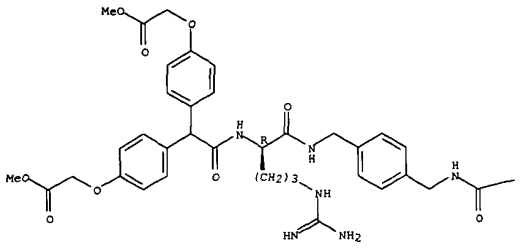
L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
oxoethylidene]bis(4,1-phenyleneoxy)]bis-, dimethyl ester, (R)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191872-49-8
CMF C35 H43 N7 O9

Absolute stereochemistry.

PAGE 1-A



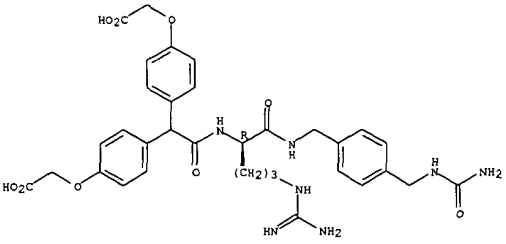
PAGE 1-B

—NH_2

CM 2

CRN 64-19-7
CMF C2 H4 O2

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

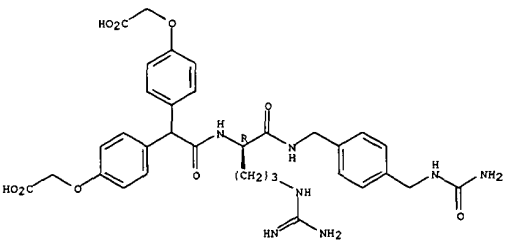


RN 191872-56-7 CAPLUS
CN Acetic acid,
2,2'-[[2-[[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methy l]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]amino]-2-oxoethylidene]bis(4,1-phenyleneoxy)]bis-, (R)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191872-55-6
CMF C33 H39 N7 O9

Absolute stereochemistry.



CM 2

CRN 64-19-7
CMF C2 H4 O2

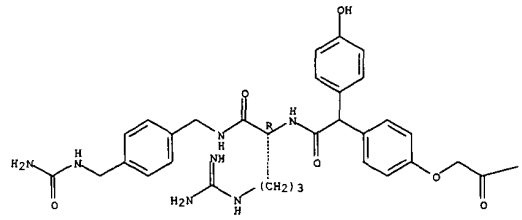
L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 191872-52-3 CAPLUS
CN Acetic acid,
[4-[2-[[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a

mino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]amino]-1-(4-hydroxyphenyl)-2-oxoethyl]phenoxy]-, methyl ester, (1R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

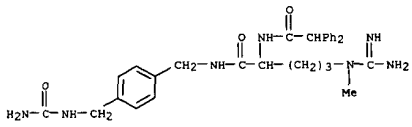
—OMe

RN 191872-55-6 CAPLUS
CN Acetic acid,
2,2'-[[2-[[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methy l]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]amino]-2-oxoethylidene]bis(4,1-phenyleneoxy)]bis-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

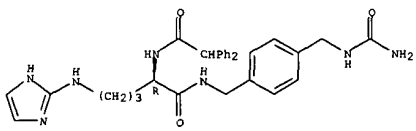
L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 191872-61-4 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a mino]carbonyl]-4-[(aminoiminomethyl)methylamino]butyl]-.alpha.-phenyl-(9CI) (CA INDEX NAME)



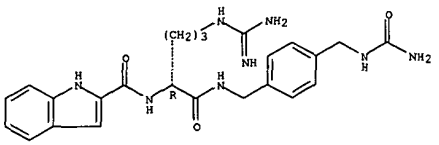
RN 191872-62-5 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a mino]carbonyl]-4-(1H-imidazol-2-ylamino)butyl]-.alpha.-phenyl-, (R)-(9CI)
(CA INDEX NAME)

Absolute stereochemistry.

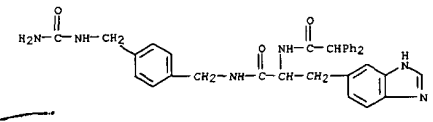


RN 191872-68-1 CAPLUS
CN *1H-Indole-2-carboxamide*,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m ethyl]amino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]-, (R)- (9CI) (CA INDEX NAME)

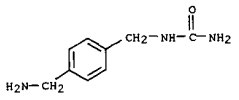
Absolute stereochemistry.



RN 191872-69-2 CAPLUS
CN 1H-Benzimidazole-5-propanamide,
N-[[4-[[(aminocarbonyl)amino]methyl]phenyl
]methyl]-.alpha.-[(diphenylacetyl)amino]- (9CI) (CA INDEX NAME)



IT **191868-11-8**
RL: RCT (Reactant)
(prepn. of amino acid derivs. as neuropeptide Y antagonists)
RN 191868-11-8 CAPLUS
CN Urea, [[4-(aminomethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



IT **191854-64-5P 191855-71-7P 191868-28-7P**
191868-29-8P 191868-32-3P 191868-33-4P
191868-48-1P 191868-49-2P 191868-52-7P
191868-67-4P 191868-68-5P 191868-69-6P
191868-72-1P 191868-75-4P 191868-78-7P
191868-92-5P 191868-93-6P 191868-94-7P
191868-98-1P 191869-01-9P 191869-05-3P
191869-09-7P 191869-12-2P 191869-33-7P
191870-03-8P 191870-06-1P 191870-09-4P
191870-12-9P 191870-30-1P 191870-41-4P
191870-52-7P 191870-54-9P 191870-64-1P
191870-65-2P 191870-68-5P 191870-69-6P
191870-70-9P 191870-79-8P 191870-81-2P
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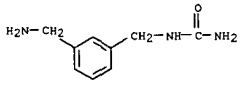
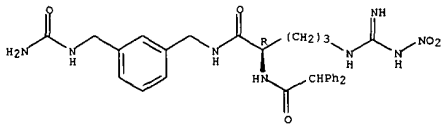
191870-93-6P 191870-96-9P 191870-99-2P

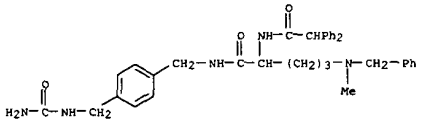


RN 191868-29-8 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[3-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-.alpha.-phenyl-,
(R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



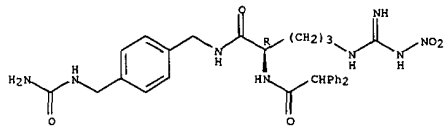
RN 191868-32-3 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[methyl(phenylmethyl)amino]butyl]-.alpha.-phenyl- (9CI)
(CA INDEX NAME)



RN 191868-33-4 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-(methylamino)butyl]-.alpha.-phenyl- (9CI) *(CA INDEX*
NAME)

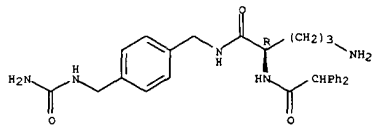
191871-02-0P 191871-05-3P 191871-08-6P
191871-11-1P 191871-15-5P 191871-29-1P
191871-30-4P 191871-46-2P 191871-52-0P
191871-62-2P 191871-65-5P 191871-76-8P
191871-78-0P 191871-79-1P 191871-85-9P
191871-93-9P 191872-00-1P 191872-01-2P
191872-06-7P 191872-09-0P 191872-25-0P
191872-33-0P 191872-35-2P 191872-36-3P
191872-37-4P 191872-46-5P 191872-47-6P
191872-48-7P 191872-51-2P 191872-53-4P
191872-54-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of amino acid derivs. as neuropeptide Y antagonists)
RN 191854-64-5 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-.alpha.-phenyl-,
(R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

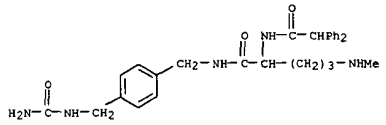


RN 191855-71-7 CAPLUS
CN Benzeneacetamide,
N-[4-amino-1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]
methyl]amino]carbonyl]butyl]-.alpha.-phenyl-, (R)- (9CI) (CA INDEX NAME)

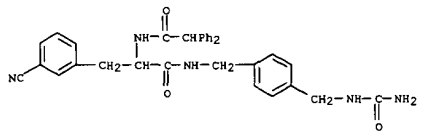
Absolute stereochemistry.



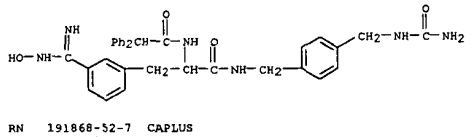
RN 191868-28-7 CAPLUS
CN Urea, [[3-(aminomethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)



RN 191868-48-1 CAPLUS
CN Benzenepropanamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-3-
cyano-.alpha.-[(diphenylacetyl)amino]- (9CI) (CA INDEX NAME)



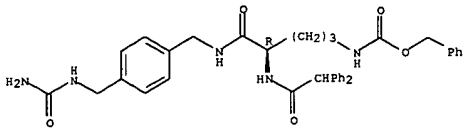
RN 191868-49-2 CAPLUS
CN Benzenepropanamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-
.alpha.-[(diphenylacetyl)amino]-3-[(hydroxyamino)iminomethyl]- (9CI) (CA
INDEX NAME)



RN 191868-52-7 CAPLUS
CN Carbamic acid,
[5-[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]-
4-[(diphenylacetyl)amino]-5-oxopentyl]-, phenylmethyl ester, (R)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

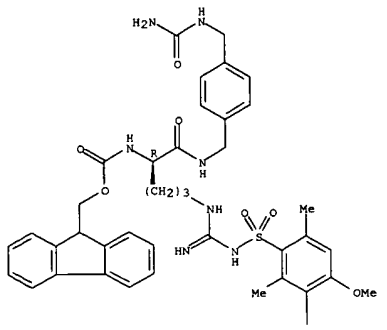


RN 191868-67-4 CAPLUS
CN Carbamic acid,
[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]

carbonyl]-4-[[imino[[(4-methoxy-2,3,6-trimethylphenyl)sulfonyl]amino]methy
l]amino]butyl]-, 9H-fluoren-9-ylmethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



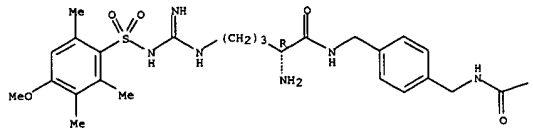
PAGE 2-A

RN 191868-68-5 CAPLUS
CN Pentanamide,
2-amino-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-5-
[[imino[[(4-methoxy-2,3,6-trimethylphenyl)sulfonyl]amino]methyl]amino]-,

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
(R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

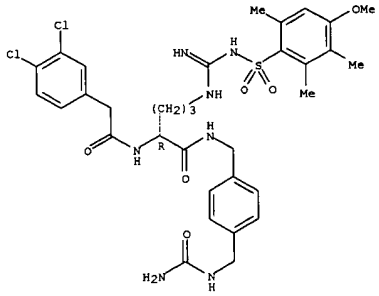


PAGE 1-B

RN 191868-69-6 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a

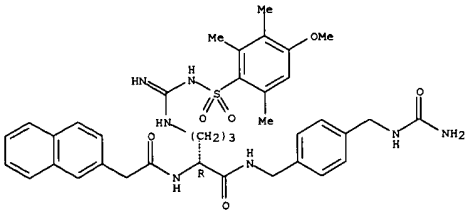
mino]carbonyl]-4-[[imino[[(4-methoxy-2,3,6-trimethylphenyl)sulfonyl]amino]
methyl]amino]butyl]-3,4-dichloro-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



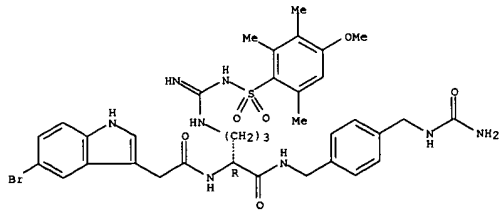
L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
RN 191868-72-1 CAPLUS
CN 2-Naphthaleneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]me
thyl]amino]carbonyl]-4-[[imino[[(4-methoxy-2,3,6-
trimethylphenyl)sulfonyl]amino]methyl]amino]butyl]-, (R)- (9CI) (CA
INDEX
NAME)

Absolute stereochemistry.



RN 191868-75-4 CAPLUS
CN 1H-Indole-3-acetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]met
hyl]amino]carbonyl]-4-[[imino[[(4-methoxy-2,3,6-
trimethylphenyl)sulfonyl]amino]methyl]amino]butyl]-5-bromo-, (R)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



RN 191868-78-7 CAPLUS
CN Benzenepropanamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl

]amino]carbonyl]-4-[[imino[[(4-methoxy-2,3,6-trimethylphenyl)sulfonyl]amin
o]methyl]amino]butyl]-.beta.-phenyl-, (R)- (9CI) (CA INDEX NAME)

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
Absolute stereochemistry.

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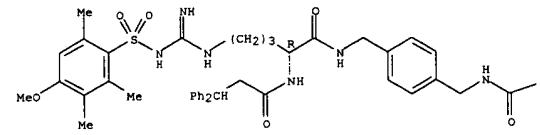

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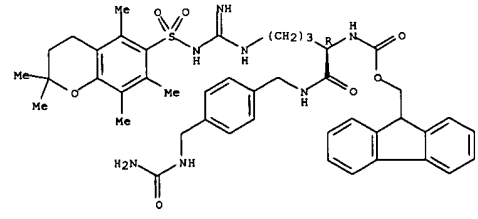
RN 191868-92-5 CAPLUS
CN Carbamic acid,
[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]
carbonyl]-4-[[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-benzopyran-6-
yl]sulfonyl]amino]iminomethyl]amino]butyl]-, 9H-fluoren-9-ylmethyl ester,
(R)- (9CI) (CA INDEX NAME)

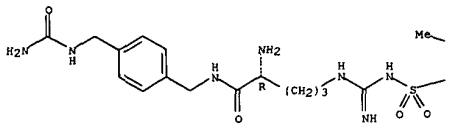
Absolute stereochemistry.



RN 191868-93-6 CAPLUS
CN Pentanamide,
2-amino-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-5-
[[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-benzopyran-6-
yl]sulfonyl]amino]iminomethyl]amino]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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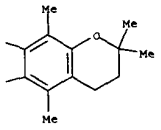
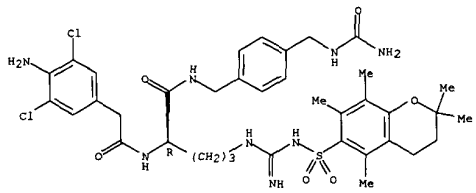


RN 191868-94-7 CAPLUS
CN Benzeneacetamide,
4-amino-N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]
methyl]amino]carbonyl]-4-[[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-
benzopyran-6-yl)sulfonyl]amino]iminomethyl]amino]butyl]-3,5-dichloro-,
(R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 191868-98-1 CAPLUS
CN 1H-Indole-2-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m
ethyl]amino]carbonyl]-4-[[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-

benzopyran-6-yl)sulfonyl]amino]iminomethyl]amino]butyl]-3-methyl-5-phenyl-
, (R)- (9CI) (CA INDEX NAME)

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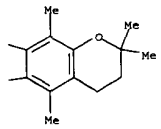
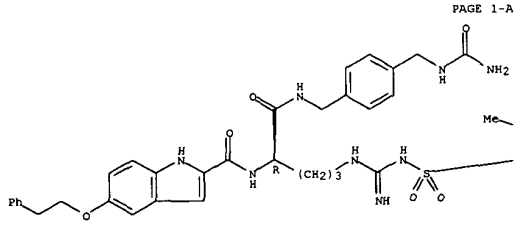


RN 191869-05-3 CAPLUS
CN 1H-Indole-2-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m
ethyl]amino]carbonyl]-4-[[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-

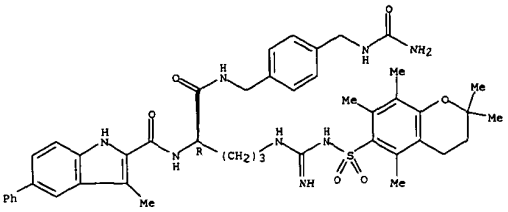
benzopyran-6-yl)sulfonyl]amino]iminomethyl]amino]butyl]-5-(2-phenylethoxy)-
, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



Absolute stereochemistry.



RN 191869-01-9 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a

mino]carbonyl]-4-[[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-benzopyran-6-
yl)sulfonyl]amino]iminomethyl]amino]butyl]-4-(benzoylamino)-, (R)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

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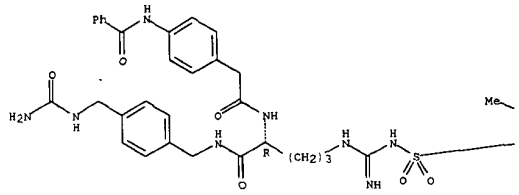

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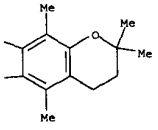
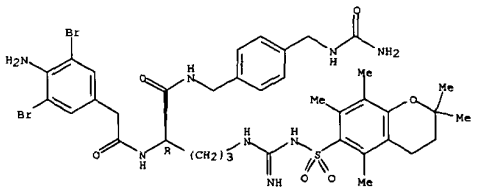


RN 191869-09-7 CAPLUS
CN Benzeneacetamide,
4-amino-N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]
methyl]amino]carbonyl]-4-[[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-
benzopyran-6-yl)sulfonyl]amino]iminomethyl]amino]butyl]-3,5-dibromo-,
(R)-
(9CI) (CA INDEX NAME)

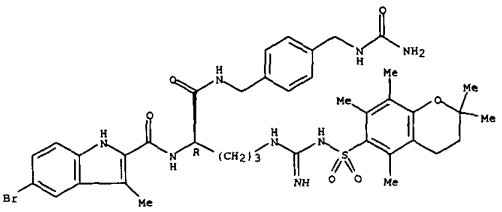
Absolute stereochemistry.



RN 191869-12-2 CAPLUS
CN 1H-Indole-2-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m
ethyl]amino]carbonyl]-4-[[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-

benzopyran-6-yl)sulfonyl]amino]iminomethyl]amino]butyl]-5-bromo-3-methyl-,
(R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



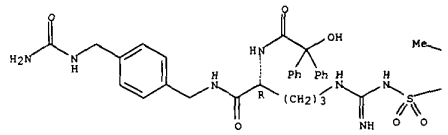
RN 191869-33-7 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a

mino]carbonyl]-4-[[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-benzopyran-6-

yl)sulfonyl]amino]iminomethyl]amino]butyl]-.alpha.-hydroxy-.alpha.-phenyl-
, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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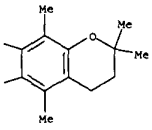
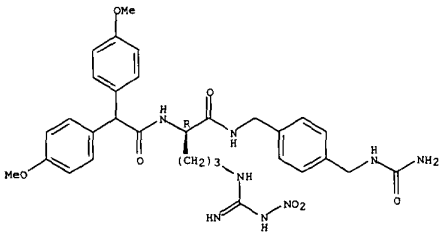


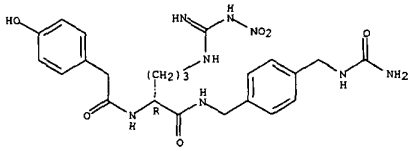
RN 191870-03-8 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a

mino]carbonyl]-4-[[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-benzopyran-6-



RN 191870-12-9 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-4-hydroxy-, (R)-
(9CI) (CA INDEX NAME)

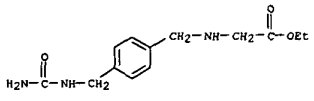
Absolute stereochemistry.



RN 191870-30-1 CAPLUS
CN Glycine, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-, ethyl
ester,
mono(trifluoroacetate) (9CI) (CA INDEX NAME)

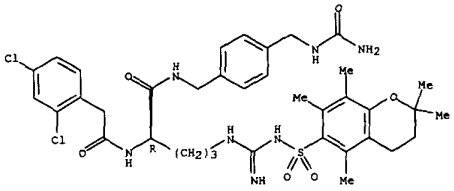
CM 1

CRN 191870-29-8
CMF C13 H19 N3 O3



yl)sulfonyl]amino]iminomethyl]amino]butyl]-2,4-dichloro-, (R)- (9CI) (CA
INDEX NAME)

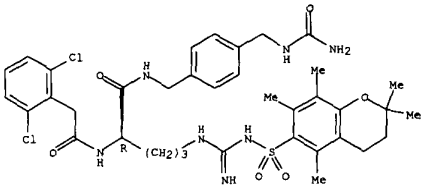
Absolute stereochemistry.



RN 191870-06-1 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a

mino]carbonyl]-4-[[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-benzopyran-6-
yl)sulfonyl]amino]iminomethyl]amino]butyl]-2,6-dichloro-, (R)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.



RN 191870-09-4 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a

mino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-4-methoxy-.alpha.-
(4-methoxyphenyl)-, (R)- (9CI) (CA INDEX NAME)

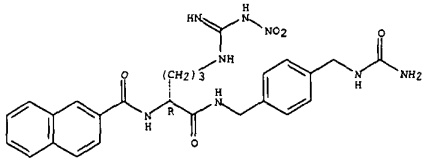
Absolute stereochemistry.

CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 191870-41-4 CAPLUS
CN 2-Naphthalenecarboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]
methyl]amino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-, (R)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 191870-52-7 CAPLUS
CN Carbamic acid,
[5-[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]-
4-[[[(2-naphthalenylmethyl)amino]carbonyl]amino]-5-oxopentyl]-,
phenylmethyl ester (9CI) (CA INDEX NAME)

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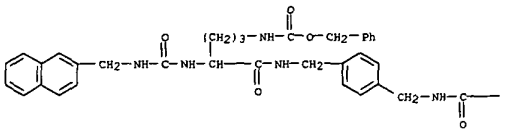
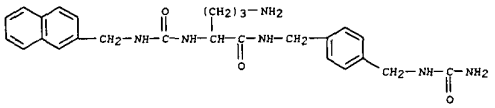


—NH_2

RN 191870-54-9 CAPLUS
CN Pentanamide,
5-amino-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-2-
{{{(2-naphthalenylmethyl)amino]carbonyl]amino}-, monoacetate (9CI) (CA
INDEX NAME)

CM 1

CRN 191870-53-8
CMF C26 H32 N6 O3



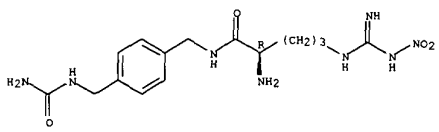
CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191870-64-1 CAPLUS
CN Benzenepropanamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-
.alpha.-[[[(2-butyl-1H-benzimidazol-5-yl)amino]carbonyl]amino]-3-cyano-
(9CI) (CA INDEX NAME)

[[imino(nitroamino)methyl]amino]-, monohydrochloride, (R)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

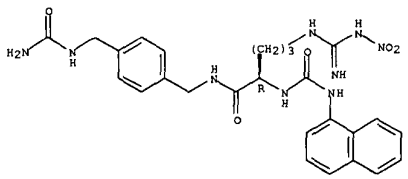


● HCl

RN 191870-70-9 CAPLUS
CN Pentanamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-5-

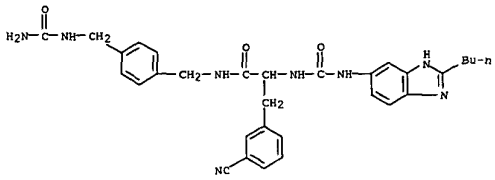
[[imino(nitroamino)methyl]amino]-2-[[(1-naphthalenylamino)carbonyl]amino]-
, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

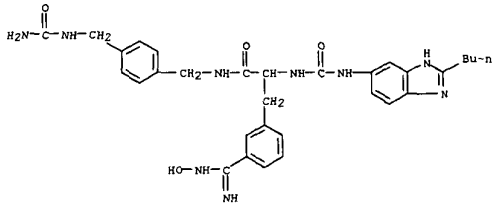


RN 191870-79-8 CAPLUS
CN 1H-Indole-2-carboxamide,
N-[1-[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m
ethyl]amino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-, (R)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

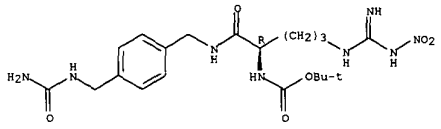


RN 191870-65-2 CAPLUS
CN Benzenepropanamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-
.alpha.-[[[(2-butyl-1H-benzimidazol-5-yl)amino]carbonyl]amino]-3-
[(hydroxyamino)iminomethyl]- (9CI) (CA INDEX NAME)

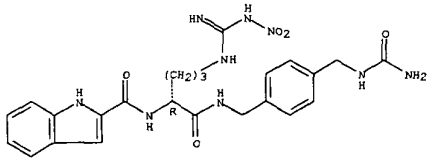


RN 191870-68-5 CAPLUS
CN Carbamic acid,
[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]
carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-, 1,1-dimethylethyl
ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

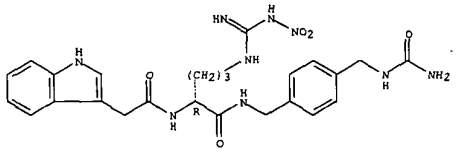


RN 191870-69-6 CAPLUS
CN Pentanamide,
2-amino-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-5-



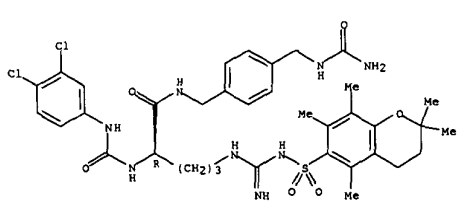
RN 191870-81-2 CAPLUS
CN 1H-Indole-3-acetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]met
hyl]amino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-, (R)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry.



RN 191870-84-5 CAPLUS
CN Pentanamide,
N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-2-[[[(3,4-
dichlorophenyl)amino]carbonyl]amino]-5-[[[[(3,4-dihydro-2,2,5,7,8-
pentamethyl-2H-1-benzopyran-6-yl)sulfonyl]amino]iminomethyl]amino]-, (R)-
(9CI) (CA INDEX NAME)

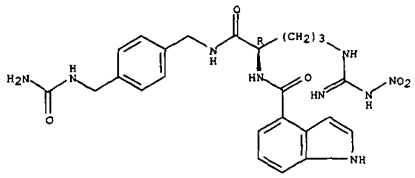
Absolute stereochemistry.



L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

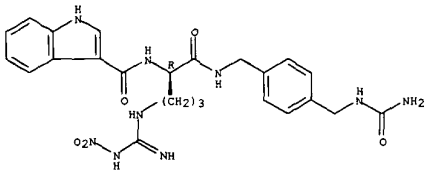
RN 191870-87-8 CAPLUS
CN 1H-Indole-4-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m
ethyl]amino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-, (R)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 191870-90-3 CAPLUS
CN 1H-Indole-3-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m
ethyl]amino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-, (R)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



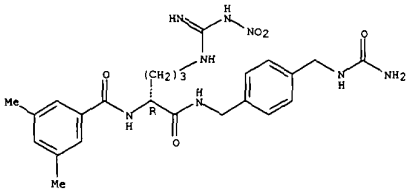
RN 191870-93-6 CAPLUS
CN 1H-Indole-5-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m
ethyl]amino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-, (R)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

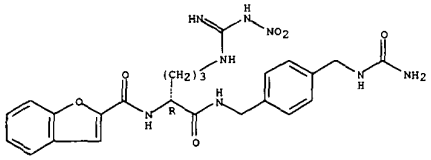
RN 191871-02-0 CAPLUS
CN Benzamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]ca
rbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-3,5-dimethyl-, (R)-
(9CI)
(CA INDEX NAME)

Absolute stereochemistry.



RN 191871-05-3 CAPLUS
CN 2-Benzofurancarboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]m
ethyl]amino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-, (R)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

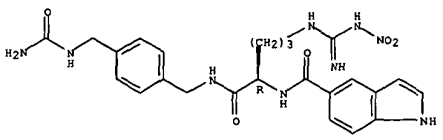


RN 191871-08-6 CAPLUS
CN 2-Naphthalenecarboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]

methyl]amino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-6-methoxy-
, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

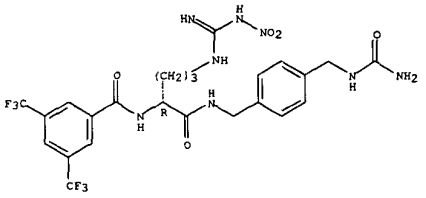
L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 191870-96-9 CAPLUS
CN Benzamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]ca

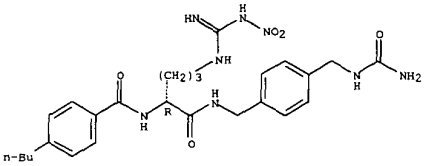
rbonyl]-4-[[imino(nitroamino]methyl]amino]butyl]-3,5-bis(trifluoromethyl)-
, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

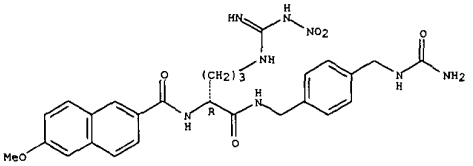


RN 191870-99-2 CAPLUS
CN Benzamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]ca
rbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-4-butyl-, (R)- (9CI)
(CA
INDEX NAME)

Absolute stereochemistry.

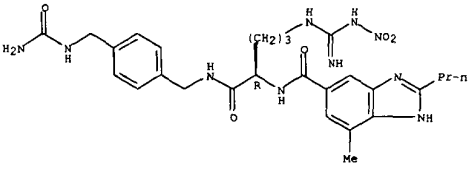


L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)



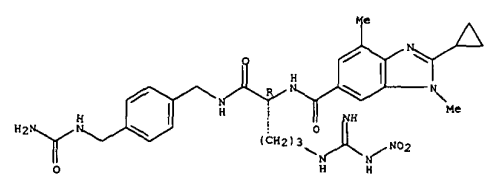
RN 191871-11-1 CAPLUS
CN 1H-Benzimidazole-5-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]p
henyl]methyl]amino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-7-
methyl-2-propyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



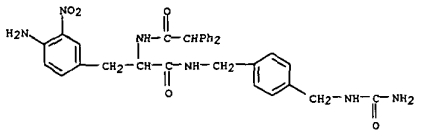
RN 191871-15-5 CAPLUS
CN 1H-Benzimidazole-6-carboxamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]p
henyl]methyl]amino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-2-
cyclopropyl-1,4-dimethyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

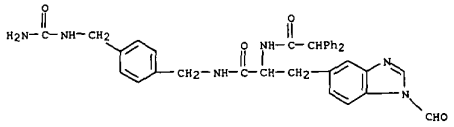


RN 191871-29-1 CAPLUS

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
CN Benzenepropanamide,
4-amino-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]met
hyl]-.alpha.-[(diphenylacetyl)amino]-3-nitro- (9CI) (CA INDEX NAME)



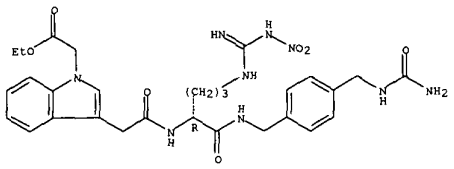
RN 191871-30-4 CAPLUS
CN 1H-Benzimidazole-5-propanamide,
N-[[4-[[(aminocarbonyl)amino]methyl]phenyl
]methyl]-.alpha.-[(diphenylacetyl)amino]-1-formyl- (9CI) (CA INDEX NAME)



RN 191871-46-2 CAPLUS
CN 1H-Indole-1-acetic acid,
3-[2-[[1-[[[[4-[(aminocarbonyl)amino]methyl]phen

yl]methyl]amino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]amino]-2-
oxoethyl]-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

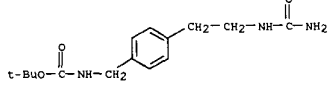
Absolute stereochemistry.



RN 191871-52-0 CAPLUS
CN 1H-Indole-3-acetamide,
N-[1-[[[[4-[(aminocarbonyl)amino]methyl]phenyl]met

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

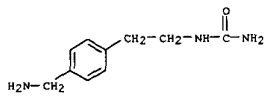
RN 191871-76-8 CAPLUS
CN Carbamic acid, [[4-[2-[(aminocarbonyl)amino]ethyl]phenyl]methyl]-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 191871-78-0 CAPLUS
CN Urea, [2-[4-(aminomethyl)phenyl]ethyl]-, mono(trifluoroacetate) (9CI)
(CA
INDEX NAME)

CM 1

CRN 191871-77-9
CMF C10 H15 N3 O



CM 2

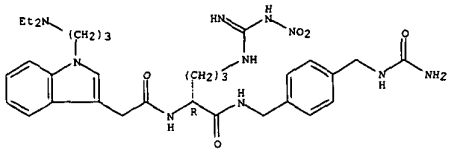
CRN 76-05-1
CMF C2 H F3 O2

RN 191871-79-1 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[2-[(aminocarbonyl)amino]ethyl]phenyl]methyl]
amino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-.alpha.-phenyl-,
(R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

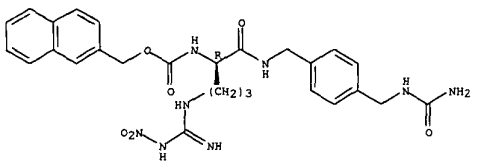
L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
hyl]amino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-1-[3-
(diethylamino)propyl]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



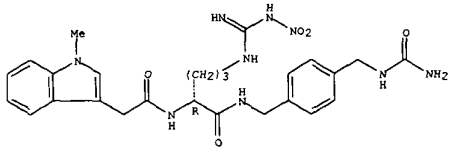
RN 191871-62-2 CAPLUS
CN Carbamic acid,
[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]
carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-, 2-naphthalenylmethyl
ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

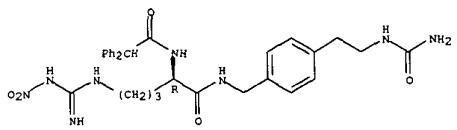


RN 191871-65-5 CAPLUS
CN 1H-Indole-3-acetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]met
hyl]amino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-1-methyl-,
(R)- (9CI) (CA INDEX NAME)

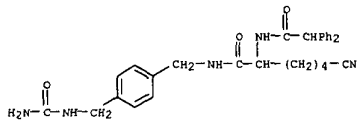
Absolute stereochemistry.



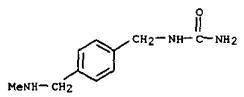
L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 191871-85-9 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-5-cyanopentyl]-.alpha.-phenyl- (9CI) (CA INDEX NAME)



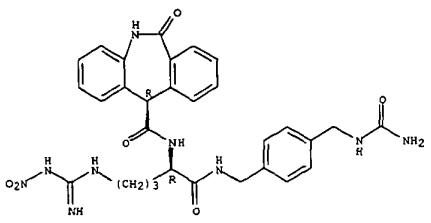
RN 191871-93-9 CAPLUS
CN Urea, [[4-[(methylamino)methyl]phenyl]methyl]-, monohydrochloride (9CI)
(CA INDEX NAME)



● HCl

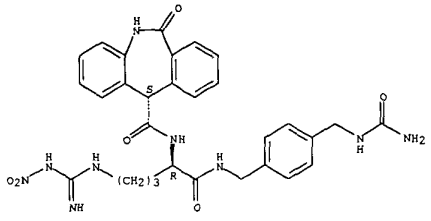
RN 191872-00-1 CAPLUS
CN 5H-Dibenz[b,e]azepine-11-carboxamide, N-[1-[[[4-
[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-
[[imino(nitroamino)methyl]amino]butyl]-6,11-dihydro-6-oxo-, [R-(R*,R*)]-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



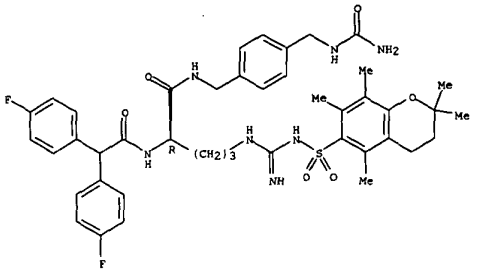
RN 191872-01-2 CAPLUS
CN 5H-Dibenz[b,e]azepine-11-carboxamide, N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-6,11-dihydro-6-oxo-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



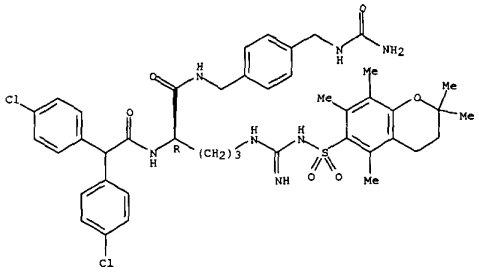
RN 191872-06-7 CAPLUS
CN Benzeneacetamide, N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-benzopyran-6-yl)sulfonyl]amino]iminomethyl]amino]butyl]-4-fluoro-.alpha.-(4-fluorophenyl)-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 191872-09-0 CAPLUS
CN Benzeneacetamide, N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-benzopyran-6-yl)sulfonyl]amino]iminomethyl]amino]butyl]-4-chloro-.alpha.-(4-chlorophenyl)-, (R)- (9CI) (CA INDEX NAME)

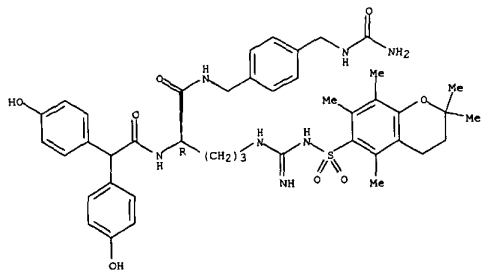
Absolute stereochemistry.



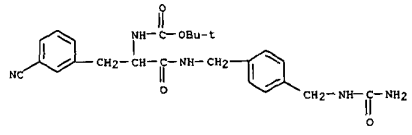
RN 191872-25-0 CAPLUS
CN Benzeneacetamide, N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[[[[(3,4-dihydro-2,2,5,7,8-pentamethyl-2H-1-benzopyran-6-

yl)sulfonyl]amino]iminomethyl]amino]butyl]-4-hydroxy-.alpha.-(4-hydroxyphenyl)-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



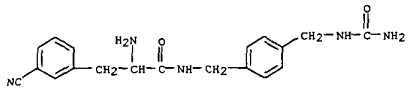
RN 191872-33-0 CAPLUS
CN Carbamic acid, [2-[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]-1-[(3-cyanophenyl)methyl]-2-oxoethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 191872-35-2 CAPLUS
CN Benzenepropanamide, .alpha.-amino-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-3-cyano-, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

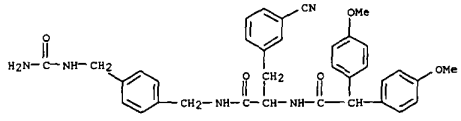
CRN 191872-34-1
CMF C19 H21 N5 O2



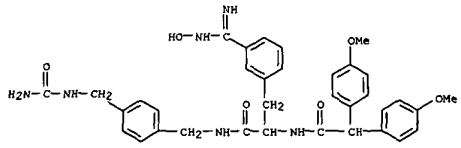
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 191872-36-3 CAPLUS
CN Benzenepropanamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[[bis(4-methoxyphenyl)acetyl]amino]-3-cyano- (9CI) (CA INDEX NAME)



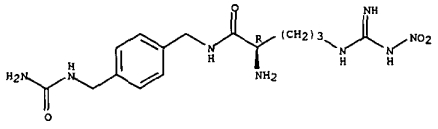
RN 191872-37-4 CAPLUS
CN Benzenepropanamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[[bis(4-methoxyphenyl)acetyl]amino]-3-[(hydroxyamino)iminomethyl]- (9CI) (CA INDEX NAME)



RN 191872-46-5 CAPLUS
CN Pentanamide, 2-amino-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-5-

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
[[imino(nitroamino)methyl]amino]-, (R)- (9CI) (CA INDEX NAME)

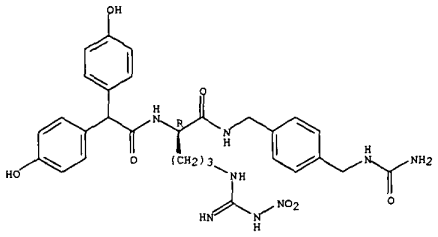
Absolute stereochemistry.



RN 191872-47-6 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a

mino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-4-hydroxy-.alpha.-
(4-hydroxyphenyl)-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

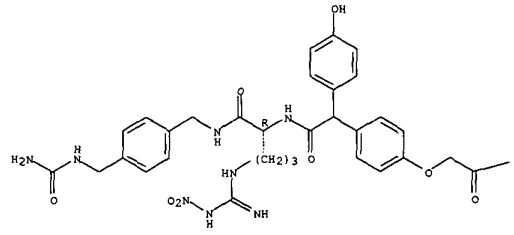


RN 191872-48-7 CAPLUS
CN Acetic acid,
2,2'-[[2-[[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methy
l]amino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]amino]-2-
oxoethylidene]bis(4,1-phenyleneoxy)]bis-, dimethyl ester, (R)- (9CI) (CA
INDEX NAME)

Absolute stereochemistry.

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

PAGE 1-A



PAGE 1-B

—OMe

RN 191872-53-4 CAPLUS
CN Acetic acid,
[4-[2-[[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a

mino]carbonyl]-4-[(aminoiminomethyl)amino]butyl]amino]-1-(4-hydroxyphenyl)-
2-oxoethyl]phenoxy]-, methyl ester, (1R)-, monoacetate (salt) (9CI) (CA
INDEX NAME)

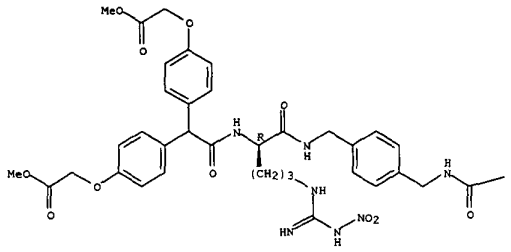
CM 1

CRN 191872-52-3
CMF C32 H39 N7 O7

Absolute stereochemistry.

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

PAGE 1-A



PAGE 1-B

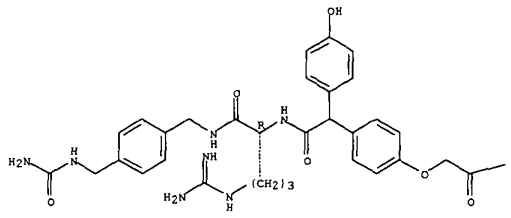
—NH2

RN 191872-51-2 CAPLUS
CN Acetic acid,
[4-[2-[[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]amino]-1-(4-
hydroxyphenyl)-2-oxoethyl]phenoxy]-, methyl ester, (1R)- (9CI) (CA INDEX
NAME)

Absolute stereochemistry.

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

PAGE 1-A



PAGE 1-B

—OMe

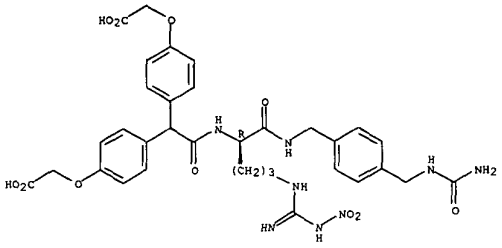
CM 2

CRN 64-19-7
CMF C2 H4 O2

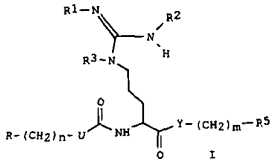
RN 191872-54-5 CAPLUS
CN Acetic acid,
2,2'-[[2-[[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methy
l]amino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]amino]-2-
oxoethylidene]bis(4,1-phenyleneoxy)]bis-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L21 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)



L21 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2001 ACS
GI



AB Title compds. I [R = (un)substituted (hetero)cycle; n = 0-2; U = bond, O, NH; R1 = C2-5-(un)substituted alkylcarbonyl, substituted PhCO; R2 = H, Me, (un)substituted alkyl; R3 = H, alkyl; Y = O, NHR4; R4 = H, C1-6-alkyl, PhCH2; m = 1, 2; R5 = (un)substituted Ph], neuropeptide Y antagonists, were prepd. Thus, (R)-R6NHC(:NNO2)NH(CH2)3CH(NHR7)CONHCH2C6H4OR5-4 (II) (R6 = CONHMe, R7 = CO2CMe3) was prepd. from MeNCO and II (R6 = H, R7 = CO2CMe2), diphenyl-acetylated, and the product hydrogenated to give II-acetate (R5 = CONHMe, R6 = COCHPh2). Title compds. showed activity as neuropeptide Y antagonists in both in vitro (at 10-8 to 10 -5 M) and in vivo tests (at 0.001 to 10 mg/kg).

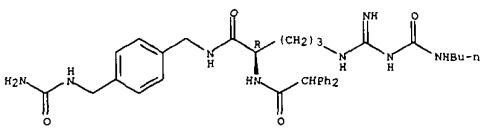
ACCESSION NUMBER: 1997:473594 CAPLUS
DOCUMENT NUMBER: 127:81787
TITLE: Preparation of amino acid derivatives as neuropeptide Y *antagonists*
INVENTOR(S): Engel, Wolfhard; Eberlein, Wolfgang; Rudolf, Klaus; Doods, Henri; Wieland, Heike-Andrea; Willim, Klaus-Dieter
PATENT ASSIGNEE(S): Dr. Karl Thomae Gmbh, Germany
SOURCE: Ger. Offen., 59 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	*KIND*	*DATE*	*APPLICATION NO.*	*DATE*
DE 19544686	A1	19970605	DE 1995-19544686	19951130
WO 9719914	A1	19970605	WO 1996-EP5214	19961126
W: CA, JP, MX, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 865426	A1	19980923	EP 1996-939927	19961126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2000501389	T2	20000208	JP 1997-520162	19961126
US 6040289	A	20000321	US 1998-77663	19980529
PRIORITY APPLN. INFO.:			DE 1995-19544686 A	19951130
			WO 1996-EP5214 W	19961126

OTHER SOURCE(S): MARPAT 127:81787
IT **191854-66-7P 191854-67-8P 191854-76-9P**

L21 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
191854-77-0P 191854-79-2P 191854-80-5P
191855-00-2P 191855-01-3P 191855-15-9P
191855-16-0P 191855-17-1P 191855-24-0P
191855-72-8P 191855-73-9P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of amino acid derivs. as neuropeptide Y antagonists)
RN 191854-66-7 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[[[[(butylamino)carbonyl]amino]iminomethyl]amino]butyl]-.alpha.-phenyl-, (R)- (9CI) (CA INDEX NAME)

Absolute *stereochemistry*.

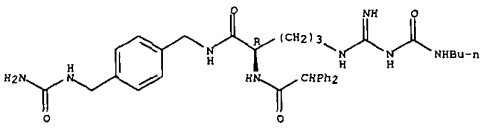


RN 191854-67-8 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[[[[(butylamino)carbonyl]amino]iminomethyl]amino]butyl]-.alpha.-phenyl-, (R)-, *monoacetate (9CI)* (CA INDEX NAME)

CM 1

CRN 191854-66-7
CMF C34 H44 N8 O4

Absolute stereochemistry.



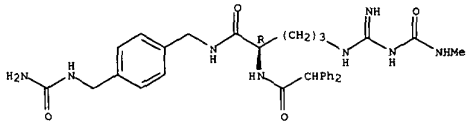
CM 2

CRN 64-19-7
CMF C2 H4 O2

L21 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 191854-76-9 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[[imino[[(methylamino)carbonyl]amino]methyl]amino]butyl]-.alpha.-phenyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

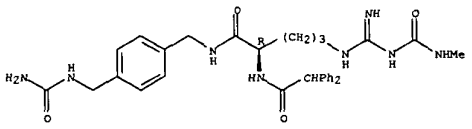


RN 191854-77-0 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]carbonyl]-4-[[imino[[(methylamino)carbonyl]amino]methyl]amino]butyl]-.alpha.-phenyl-, (R)-, *monoacetate (9CI)* (CA INDEX NAME)

CM 1

CRN 191854-76-9
CMF C31 H38 N8 O4

Absolute stereochemistry.

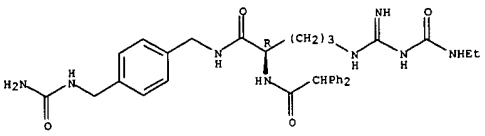


CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191854-79-2 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[[[[(ethylamino)carbonyl]amino]iminomethyl]amino]butyl]-
.alpha.-phenyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

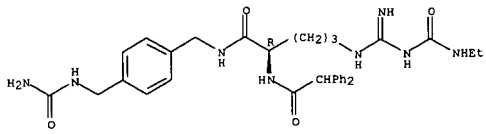


RN 191854-80-5 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[[[[(ethylamino)carbonyl]amino]iminomethyl]amino]butyl]-
.alpha.-phenyl-, (R)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191854-79-2
CMF C32 H40 N8 O4

Absolute stereochemistry.



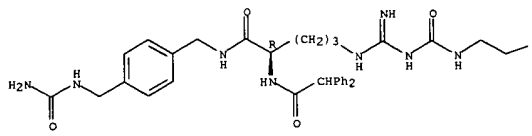
CM 2

CRN 64-19-7
CMF C2 H4 O2

[[(aminocarbonyl)amino]methyl]phenyl]-4-[(diphenylacetyl)amino]-9-imino-
3,11-dioxo-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

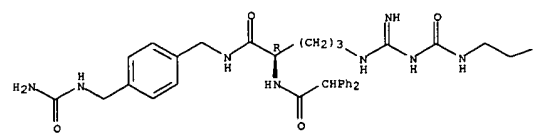
RN 191855-16-0 CAPLUS
CN 2,8,10,12-Tetraazapentadecan-15-oic acid, 1-[4-
[[(aminocarbonyl)amino]methyl]phenyl]-4-[(diphenylacetyl)amino]-9-imino-
3,11-dioxo-, ethyl ester, (R)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191855-15-9
CMF C35 H44 N8 O6

Absolute stereochemistry.

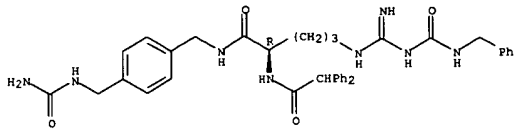
PAGE 1-A



PAGE 1-B

RN 191855-00-2 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[[imino[[[(phenylmethyl)amino]carbonyl]amino]methyl]amino
]butyl]-.alpha.-phenyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

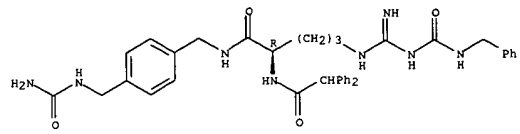


RN 191855-01-3 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[[imino[[[(phenylmethyl)amino]carbonyl]amino]methyl]amino
]butyl]-.alpha.-phenyl-, (R)-, monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191855-00-2
CMF C37 H42 N8 O4

Absolute stereochemistry.



CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191855-15-9 CAPLUS
CN 2,8,10,12-Tetraazapentadecan-15-oic acid, 1-[4-

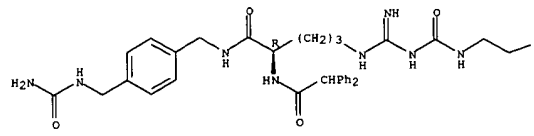
CM 2

CRN 64-19-7
CMF C2 H4 O2

RN 191855-17-1 CAPLUS
CN 2,8,10,12-Tetraazapentadecan-15-oic acid, 1-[4-
[[(aminocarbonyl)amino]methyl]phenyl]-4-[(diphenylacetyl)amino]-9-imino-
3,11-dioxo-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

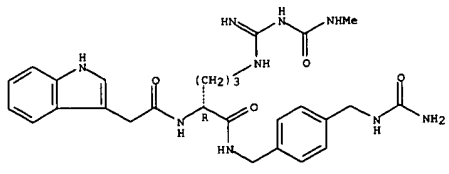
PAGE 1-A



PAGE 1-B

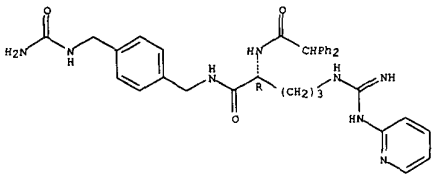
RN 191855-24-0 CAPLUS
CN 1H-Indole-3-acetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]met
hyl]amino]carbonyl]-4-[[imino[[(methylamino)carbonyl]amino]methyl]amino]bu
tyl]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 191855-72-8 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[[imino(2-pyridinylamino)methyl]amino]butyl]-.alpha.-
phenyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

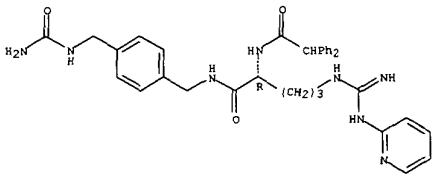


RN 191855-73-9 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[[imino(2-pyridinylamino)methyl]amino]butyl]-.alpha.-
phenyl-, (R)-, diacetate (9CI) (CA INDEX NAME)

CM 1

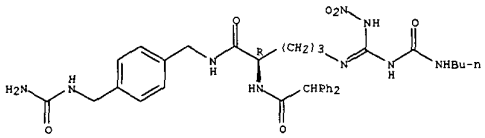
CRN 191855-72-8
CMF C34 H38 N8 O3

Absolute stereochemistry.



CM 2

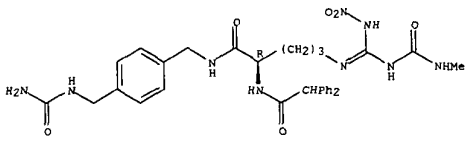
CRN 64-19-7
CMF C2 H4 O2



RN 191854-75-8 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a

mino]carbonyl]-4-[[[[(methylamino)carbonyl]amino](nitroamino)methylene]ami
no]butyl]-.alpha.-phenyl-, (R)- (9CI) (CA INDEX NAME)

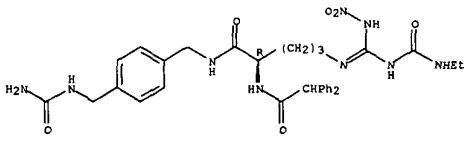
Absolute stereochemistry.



RN 191854-78-1 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a

mino]carbonyl]-4-[[[[(ethylamino)carbonyl]amino](nitroamino)methylene]amin
o]butyl]-.alpha.-phenyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

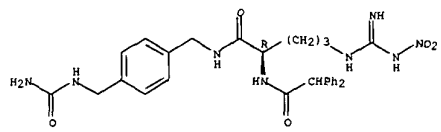


RN 191854-98-5 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a

mino]carbonyl]-4-[[(nitroamino)[[[(phenylmethyl)amino]carbonyl]amino]methy

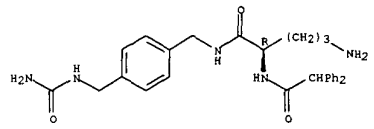
IT **191854-64-5 191855-71-7**
RL: RCT (Reactant)
(prepn. of amino acid derivs. as neuropeptide Y antagonists)
RN 191854-64-5 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a
mino]carbonyl]-4-[[imino(nitroamino)methyl]amino]butyl]-.alpha.-phenyl-,
(R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 191855-71-7 CAPLUS
CN Benzeneacetamide,
N-[4-amino-1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]
methyl]amino]carbonyl]butyl]-.alpha.-phenyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



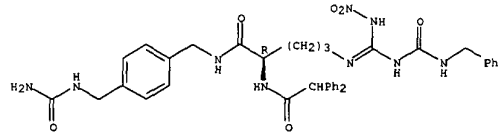
IT **191854-65-6P 191854-75-8P 191854-78-1P**
191854-98-5P 191855-14-8P 191855-23-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of amino acid derivs. as neuropeptide Y antagonists)
RN 191854-65-6 CAPLUS
CN Benzeneacetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]a

mino]carbonyl]-4-[[[[(butylamino)carbonyl]amino](nitroamino)methylene]amin
o]butyl]-.alpha.-phenyl-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

lene]amino]butyl]-.alpha.-phenyl-, (R)- (9CI) (CA INDEX NAME)

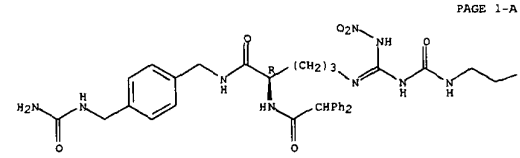
Absolute stereochemistry.



RN 191855-14-8 CAPLUS
CN 2,8,10,12-Tetraazapentadec-8-en-15-oic acid, 1-[4-
[[(aminocarbonyl)amino]methyl]phenyl]-4-[(diphenylacetyl)amino]-9-
(nitroamino)-3,11-dioxo-, ethyl ester, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



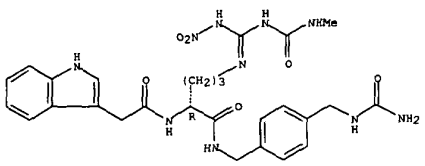
PAGE 1-B

RN 191855-23-9 CAPLUS
CN 1H-Indole-3-acetamide,
N-[1-[[[[4-[[(aminocarbonyl)amino]methyl]phenyl]met

hyl]amino]carbonyl]-4-[[[[(methylamino)carbonyl]amino](nitroamino)methylen
e]amino]butyl]-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L21 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)



L21 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2001 ACS

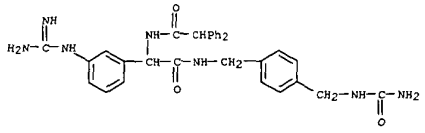
AB Amino acid derivs. R(CH2)nXCONHCH[C6H4NHC(:NR1)NR2R3]COY(CH2)mC6H4R4 [R = (un)substituted Ph, 1- or 2-naphthyl, heterocyclyl; n = 0, 1, 2; X = single bond, O, NH; R1 = H, (un)substituted alkyl or cycloalkyl, etc.; R2 = H, alkyl, (un)substituted phenyl; R3 = H, alkyl; Y = O, NH, alkyl- or benzylimino; m = 1, 2; R4 = H, halo, cyano, alkyl, etc.] were prepd. for use as drugs, esp. as selective neuropeptide Y (NPY) antagonists. Thus, (R,S)-3-(aminoiminomethylamino)-.alpha.-[(diphenylacetyl)amino]-N-[(4-hydroxyphenyl)methyl]-benzeneacetamide hydrochloride by a multistep *procedure starting from* .alpha.-*amino*-3-*nitrobenzeneacetic acid*, diphenylacetyl chloride, 4-hydroxybenzylamine, and cyanamide. The claimed compds. show in vitro NPY antagonist activity at a dosage of 0.001-10 mg/kg.

ACCESSION NUMBER: 1997:473593 CAPLUS
DOCUMENT NUMBER: 127:95607
TITLE: Preparation of amino acid derivatives as drugs
INVENTOR(S): Engel, Wolfhard; Eberlein, Wolfgang; Rudolf, Klaus; Doods, Henri; Wieland, Heike-Andrea; Willim, Klaus-Dieter
PATENT ASSIGNEE(S): Dr. Karl Thomae Gmbh, Germany
SOURCE: Ger. Offen., 50 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19544685	A1	19970605	DE 1995-19544685	19951130
CA 2235937	AA	19970605	CA 1996-2235937	19961126
WO 9719913	A1	19970605	WO 1996-EP5217	19961126
W: CA, JP, MX, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 865425	A1	19980923	EP 1996-940649	19961126
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2000501090	T2	20000202	JP 1997-520164	19961126
US 5962530	A	19991005	US 1998-77629	19980529
PRIORITY APPLN. INFO.:			DE 1995-19544685	19951130
			WO 1996-EP5217	19961126

OTHER SOURCE(S): MARPAT 127:95607
IT **192001-01-7P 192001-07-3P 192001-08-4P**
192001-09-5P 192001-11-9P 192001-12-0P
192001-13-1P 192001-61-9P 192001-65-3P
192001-66-4P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of amino acid derivs. as neuropeptide Y antagonists)
RN 192001-01-7 CAPLUS
CN Benzeneacetamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-3-[(aminoiminomethyl)amino]-.alpha.-[(diphenylacetyl)amino]-, monohydrochloride (9CI) (CA INDEX NAME)

L21 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

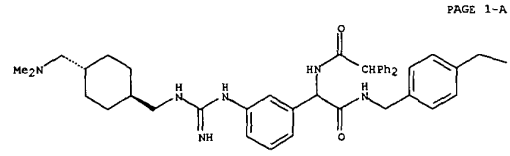


● HCl

RN 192001-07-3 CAPLUS
CN Benzeneacetamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-3-[[[[[4-[(dimethylamino)methyl]cyclohexyl]methyl]amino]iminomethyl]amino]-.alpha.-[(diphenylacetyl)amino]-, monohydriodide, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A

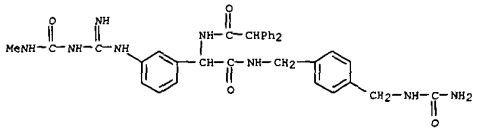


● HI

PAGE 1-B

RN 192001-08-4 CAPLUS
CN Benzeneacetamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[(diphenylacetyl)amino]-3-[[imino[[(methylamino)carbonyl]amino]methyl]amino]- (9CI) (CA INDEX NAME)

L21 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 192001-09-5 CAPLUS
CN Benzeneacetamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[(diphenylacetyl)amino]-3-[[imino[(4-methoxyphenyl)amino]methyl]amino]-, monohydriodide (9CI) (CA INDEX NAME)

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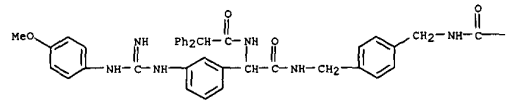

● HI

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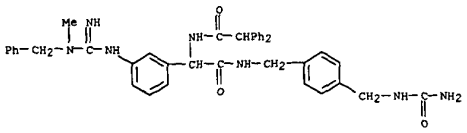
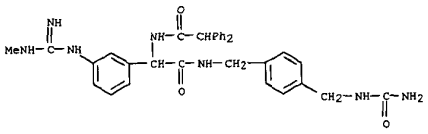
—NH_2

RN 192001-11-9 CAPLUS
CN Benzeneacetamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[(diphenylacetyl)amino]-3-[[imino[methyl(phenylmethyl)amino]methyl]amino]- (9CI) (CA INDEX NAME)



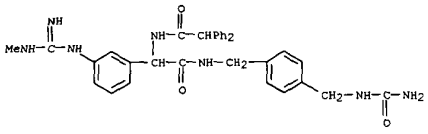
RN 192001-12-0 CAPLUS
CN Benzeneacetamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[(diphenylacetyl)amino]-3-[[imino(methylamino)methyl]amino]-(9CI)
(CA INDEX NAME)



RN 192001-13-1 CAPLUS
CN Benzeneacetamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[(diphenylacetyl)amino]-3-[[imino(methylamino)methyl]amino]-, monoacetate (9CI) (CA INDEX NAME)

CM 1

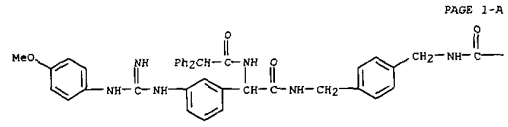
CRN 192001-12-0
CMF C33 H35 N7 O3



CM 2

CRN 64-19-7
CMF C2 H4 O2

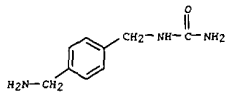
PAGE 1-A



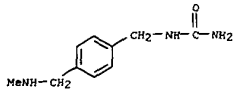
PAGE 1-B

—NH2

IT **191868-11-8 192001-59-5**
RL: RCT (Reactant)
(prepn. of amino acid derivs. as neuropeptide Y antagonists)
RN 191868-11-8 CAPLUS
CN Urea, [[4-(aminomethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

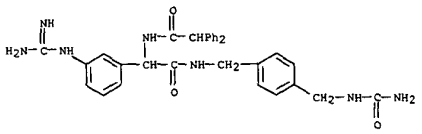


RN 192001-59-5 CAPLUS
CN Urea, [[4-[(methylamino)methyl]phenyl]methyl]- (9CI) (CA INDEX NAME)



IT **192001-24-4P 192001-26-6P 192001-36-8P**
192001-37-9P 192001-38-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of amino acid derivs. as neuropeptide Y antagonists)
RN 192001-24-4 CAPLUS
CN Benzeneacetamide, N-[[4-[[(aminocarbonyl]amino]methyl]phenyl]methyl]-.alpha.-[(diphenylacetyl]amino]-3-nitro- (9CI) (CA INDEX NAME)

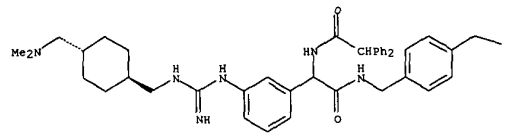
RN 192001-61-9 CAPLUS
CN Benzeneacetamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-3-[(aminoiminomethyl)amino]-.alpha.-[(diphenylacetyl)amino]- (9CI) (CA INDEX NAME)



RN 192001-65-3 CAPLUS
CN Benzeneacetamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-3-[[[[[4-[(dimethylamino)methyl]cyclohexyl]methyl]amino]iminomethyl]amino]-.alpha.-[(diphenylacetyl)amino]-, trans- (9CI) (CA INDEX NAME)

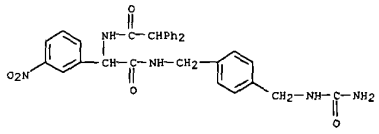
Relative stereochemistry.

PAGE 1-A

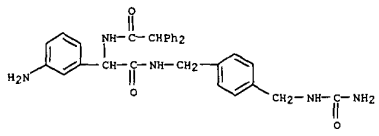


PAGE 1-B

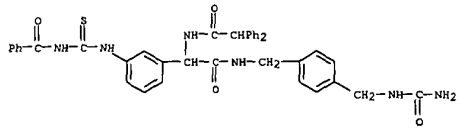
RN 192001-66-4 CAPLUS
CN Benzeneacetamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[(diphenylacetyl)amino]-3-[[imino[(4-methoxyphenyl)amino]methyl]amino]- (9CI) (CA INDEX NAME)



RN 192001-26-6 CAPLUS
CN Benzeneacetamide, 3-amino-N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-.alpha.-[(diphenylacetyl)amino]- (9CI) (CA INDEX NAME)

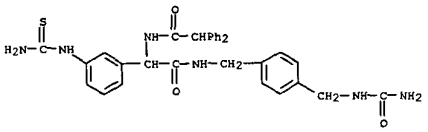


RN 192001-36-8 CAPLUS
CN Benzeneacetamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-3-[[(benzoylamino)thioxomethyl]amino]-.alpha.-[(diphenylacetyl)amino]-(9CI)
(CA INDEX NAME)

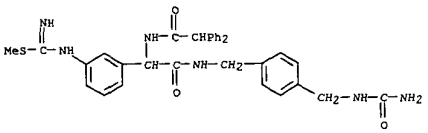


RN 192001-37-9 CAPLUS
CN Benzeneacetamide, N-[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]-3-[(aminothioxomethyl)amino]-.alpha.-[(diphenylacetyl)amino]- (9CI) (CA INDEX NAME)

L21 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)

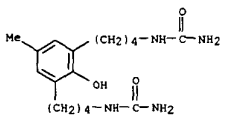


RN 192001-38-0 CAPLUS
CN Carbamimidothioic acid, [3-[2-[[[4-[[(aminocarbonyl)amino]methyl]phenyl]methyl]amino]-1-[[(diphenylacetyl)amino]-2-oxoethyl]phenyl]-, methyl ester, monohydriodide (9CI) (CA INDEX NAME)



● HI

L21 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2001 ACS
AB Esters, alcs., carboxylic acids, aldehydes, ketones, and terpenes (111 total) were identified in the aroma of *R. roxburghii* hips by gas chromatog.-mass spectrometry. The major components were phytyl formate, cyclohexyl acetate, linalool, and palmitic acid.
ACCESSION NUMBER: 1993:79735 CAPLUS
DOCUMENT NUMBER: 118:79735
TITLE: Study of the volatile aroma compounds of Rosa roxburghii Tratt fruits
AUTHOR(S): *Liang, Lianli; Han, Lin; Chen, Xue; Shi, Luhuai*
CORPORATE SOURCE: Guizhou Prov. Inst. Light Ind. Sci., Guiyang, 550002, Peop. Rep. China
SOURCE: Huaxue Tongbao (1992), (5), 34-6, 39
CODEN: HHTPAU; ISSN: 0441-3776
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
IT **145613-71-4**
RL: BIOL (Biological study)
(of Rosa roxburghii fruit aroma)
RN 145613-71-4 CAPLUS
CN Urea, N,N''-[(2-hydroxy-5-methyl-1,3-phenylene)di-4,1-butanediyl]bis- (9CI) (CA INDEX NAME)



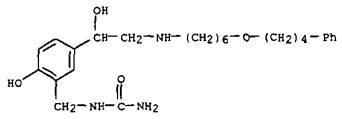
L21 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2001 ACS
AB QCH(OH)CH2NHCR1R2XCH2OCH2YAr [I; Ar = (un)substituted Ph; R1, R2 = H, C1-3 alkyl; X = bond, C1-7 alkylene, C2-7 alkenylene, alkynylene; Y = bond, C1-6 alkylene, C2-6 alkylene, alkynylene; Q = 3-substituted 4-HOC6H4, 5-hydroxy-6-(hydroxymethyl)-2-pyridinyl, OH-substituted Ph, optionally substituted by halo] and their physiol. acceptable salts and solvates, useful as .beta.2-adrenoreceptor stimulators (no data), were prepd. by 5 methods. A mixt. of .alpha.-(aminomethyl)-2-phenyl-4H-1,3-dioxino(5,4-b]pyridine-6-methanol and 7-(2-phenylethoxy)-2-heptene was hydrogenated over 5% Pt/C and 10% PdO/C to give .alpha.-[[[1-methyl-6-(2-phenylethoxy)hexyl]amino]methyl]-2-phenyl-4H-1,3-dioxino[5,4-b]pyridine-6-methanol which was hydrolyzed with N methanolic HCl and H2O in MeOH 6 h at 50.degree. to give 3-hydroxy-.alpha.6-[[[1-methyl-6-(2-phenylethoxy)hexyl]amino]methyl]-2,6-pyridinedimethanol-2HCl. Formulations for I in tablets, pressurized aerosol, and inhalation cartridges were given, e.g., I 2.0, microcryst. cellulose 196.5, and Mg stearate 1.5 mg per tablet.
ACCESSION NUMBER: 1988:55893 CAPLUS
DOCUMENT NUMBER: 108:55893
TITLE: Ethanolamine derivatives, their preparation, their use as .beta.2-adrenoreceptor stimulators, and pharmaceutical compositions containing them
INVENTOR(S): Finch, Harry; Lunts, Lawrence Henry Charles; Naylor, Alan; Skidmore, Ian Frederick; Campbell, Ian Baxter; Middlemiss, David; Willbe, Charles
PATENT ASSIGNEE(S): Glaxo Group Ltd., UK
SOURCE: Eur. Pat. Appl., 28 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 220054	A2	19870429	EP 1986-307974	19861015
EP 220054	A3	19871202		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 62174041	A2	19870730	JP 1986-245148	19861015
US 4908386	A	19900313	US 1988-287441	19881220
CN 1048040	A	19901226	CN 1989-104065	19890615

PRIORITY APPLN. INFO.:
GB 1985-25478 19851016
GB 1985-25479 19851016
GB 1985-25480 19851016
GB 1985-25481 19851016
GB 1985-25485 19851016
US 1986-919123 19861015

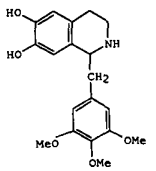
IT **111927-72-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as adrenoreceptor stimulant)
RN 111927-72-1 CAPLUS
CN Urea, [[2-hydroxy-5-[1-hydroxy-2-[[6-(4-phenylbutoxy)hexyl]amino]ethyl]phenyl]methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

L21 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)



● HCl

L21 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2001 ACS
GI



II

AB The potencies of 15 .beta.-adrenoceptor agonists were compared with that of (-)-isoprenaline bitartrate (I) [54750-10-6] (i.v.) on bronchial muscle, soleus muscle, blood pressure, and heart rate in the anesthetized cat; the .beta.-adrenoceptor antagonist potencies of (.+-.)-propranolol-HCl [3506-09-0] and (.+-.)-practolol [23313-50-0] were detd. against I in the same model. I was unselective and the most potent agonist, the min. effective dose for each parameter being 0.003-0.01 .mu.g base equiv./kg and the max. response being produced by 0.3-1 .mu.g base equiv./kg. All the other agonists, except the unselective trimetoquinol (II) [18559-59-6], were less potent at increasing heart rate than they were at inhibiting the other parameters, and all 15 agonists were longer-acting than I. AH 7616 acetate [60756-64-1] was also less potent on soleus muscle and blood pressure than on bronchial muscle when 5-hydroxytryptamine was used to induce bronchospasm. Practolol was 10-12 times more potent on heart than on the other parameters, whereas propranolol affected all similarly. It may not be possible to sep. the bronchodilating and tremor-enhancing properties of .beta.-adrenoceptor agonists. Lands' dual .beta.-adrenoceptor subclassification is adhered to.

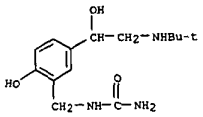
ACCESSION NUMBER: 1976:571644 CAPLUS
DOCUMENT NUMBER: 85:171644
TITLE: Selectivity of .beta.-adrenoceptor agonists and antagonists on bronchial, skeletal, vascular and cardiac muscle in the anesthetized cat
AUTHOR(S): Apperley, G. H.; Daly, M. J.; Levy, G. P.
CORPORATE SOURCE: Dep. Pharmacol., Allen and Hanburys Res. Ltd., Ware, Engl.
SOURCE: Br. J. Pharmacol. (1976), 57(2), 235-46
CODEN: BJPCBM
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **60756-70-9**
RL: BIOL (Biological study)
(.beta.-adrenoceptor selectivity of, isoprenaline in relation to)

RN 60756-70-9 CAPLUS
CN Urea, [[5-[2-[(1,1-dimethylethyl)amino]-1-hydroxyethyl]-2-hydroxyphenyl]methyl]-, (2E)-2-butenedioate (salt) (9CI) (CA INDEX NAME)

CM 1

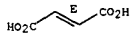
L21 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)
CRN 60756-69-6
CMF C14 H23 N3 O3



CM 2

CRN 110-17-8
CMF C4 H4 O4
CDES 2:E

Double bond geometry as shown.



L21 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2001 ACS
GI For diagram(s), see printed CA Issue.
AB Title compds. (I, R = H; R1 = NO2, NH2, NH-acyl, CH2OH, CH2NH2, CH2NH-acyl; Q = CH2, CHOH, CO; R2 = H; n = 4-8), useful as bronchial dilators, were prepd. Thus, 4,3-HO(NO2)C6H3(CH2)2NH2 reacted with PhCH2Br in DMS and 2N NaOH at 85.degree. to give 4,3-(PhCH2O)(NO2)C6H3(CH2)2NH2 which condensed with PhCHO in PhMe to the Schiff base and was reduced by NaBH4 to 4,3-(PhCH2O)(NO2)C6H3(CH2)2NHCH2Ph which reacted with Br(CH2)6Br to give I (R = R2 = PhCH2, R1 = NO2, Q = CH2, n = 6), reduced by H2NNH2 to I (R = R2 = PhCH2, R1 = NH2, Q = CH2, n = 6), which was debenzylated by H in MeOH to give I (R = R2 = H, R1 = NH2, Q = CH2, n = 6).

ACCESSION NUMBER: 1973:526069 CAPLUS
DOCUMENT NUMBER: 79:126069
TITLE: N,N'-Bis[2-(4-hydroxyphenyl)ethyl]polymethylenediamines
INVENTOR(S): Colella, Donald Francis; Kaiser, Carl
PATENT ASSIGNEE(S): Smith Kline and French Laboratories
SOURCE: Ger. Offen., 40 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

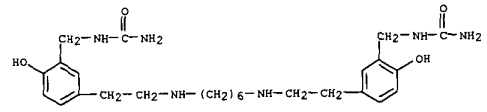
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2227022	A	19721214	DE 1972-2227022	19720602
DE 2227022	C2	19830113		
ZA 7203611	A	19730328	ZA 1972-3611	19720526
BE 784105	A1	19721129	BE 1972-118024	19720529
GB 1370066	A	19741009	GB 1972-25269	19720530
GB 1370068	A	19741009	GB 1974-14825	19720530
GB 1370067	A	19741009	GB 1974-14824	19720530
CA 1044699	A1	19781219	CA 1972-143419	19720530
AU 7242965	A1	19731206	AU 1972-42965	19720531
FR 2140149	A1	19730112	FR 1972-19677	19720601
JP 56014656	B4	19810406	JP 1972-55003	19720601
US 3933913	A	19760120	US 1972-287399	19720908
US 4024281	A	19770517	US 1975-623130	19751016

PRIORITY APPLN. INFO.: US 1971-148912 19710601
ZA 1972-3611 19720525
SA 1972-3611 19720526
US 1972-287399 19720908

IT **49639-63-6P 49640-08-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

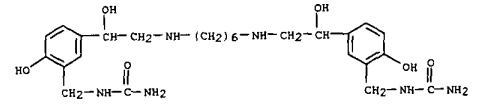
RN 49639-63-6 CAPLUS
CN Urea, N,N''-[1,6-hexanediylbis[imino-2,1-ethanediyl(6-hydroxy-3,1-phenylene)methylene]]bis-, dihydrochloride (9CI) (CA INDEX NAME)

L21 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)



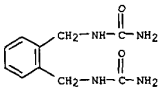
●2 HCl

RN 49640-08-6 CAPLUS
CN Urea, N,N''-[1,6-hexanediylbis[imino(1-hydroxy-2,1-ethanediyl)(6-hydroxy-3,1-phenylene)methylene]]bis-, dihydrochloride (9CI) (CA INDEX NAME)

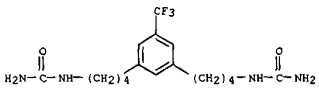


●2 HCl

L21 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2001 ACS
GI For diagram(s), see printed CA Issue.
AB Treating .omicron.-xylylene dihalides with NH3 or its derivs. PhCH2NH2, Ph2NNH2, carboxylic acid hydrazides, urea, or cyanamide gave isoindoline I
(R = H) and its 2-substituted derivs. with R = PhCH2, Ph2N, acylamino, and
imino-substituted alkoxymethyl or chloromethyl.
.omicron.-Xylylenediamine
derivs. were obtained in some cases. The best yields of the isoindolines were obtained at low xylylene dihalide concn., or by use of toluene-water reaction medium and NaOH catalyst.
ACCESSION NUMBER: 1972:72345 CAPLUS
DOCUMENT NUMBER: 76:72345
TITLE: Alkylation of ammine and some of its derivatives thorugh o-xylylene dihalide
AUTHOR(S): Dauth, Ch.; Becker, H. G. O.
CORPORATE SOURCE: Forschungstelle, VEB Arzneimittelwerk Dresden, Radebeul, E. Ger.
SOURCE: J. Prakt. Chem. (1971), 313(4), 686-98
CODEN: JPCEAO
DOCUMENT TYPE: Journal
LANGUAGE: German
IT **35180-29-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 35180-29-1 CAPLUS
CN Urea, N,N''-[1,2-phenylenebis(methylene)]bis- (9CI) (CA INDEX NAME)

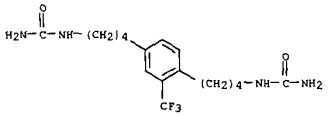


L21 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2001 ACS
AB To 2.6 g H2SO4 (d. 1.82) and 1.2 g HNO3 (d. 1.5) was added at 40-50.degree. 3.75 g PhC3F7 and the mixt. heated 2 hr at 50.degree. to give 79% 3-nitro deriv. (I), b6 92-4.degree., d20 1.5508, n20D 1.4253. HNO3 in 30% oleum in 1 hr at 95-7.degree. gave the 3,5-dinitro deriv., m.45-6.degree.. Reduced with Fe in aq. HCl, this gave the 3,5-diamino deriv., m. 93-4.degree., after 4 hr heating; di-Ac deriv. m. 250-1.degree.. The diamine and COCl2 gave 80% 3,5-diisocyanate, b7 110-12.degree., 1.6047, 1.4602, which conventionally gave the 3,5-bis(methylurethane) deriv., m. 139-40.degree.; and 3,5-bis(ureido) deriv., m. 227-8.degree.. I was reduced with Fe-HCl to the 3-amino analog, b3 74-5.degree., 1.4851, 1.4245; its Ac deriv., m. 117-18.degree.,
and mixed acid kept 4.5 hr at room temp. gave 89% 2-nitro deriv., m. 115-16.degree., which with Fe-HCl wasreduced to the 2-amino-5-acetamido analog, m. 105-6.degree., which heated with 20% HCl gave 96% 2,5-diamino analog, m. 66-7.degree.; di-Ac deriv. m. 193-4.degree.. The diamine and COCl2 gave the 2,5-diisocyanate, b20 113.degree., which gave the 2,5-bis(methylurethane), m. 143-4.degree., and 2,5-bis(ureido) deriv., m. 235.degree.. 1-Trifluoromethyl-3,5-phenylenediamine added to COCl2 in C6H3Cl3 at 60-70.degree. gave 1-trifluoromethyl-3,5-phenylene diisocyanate, b2110-11.degree.; similarly was prepd. 56% 1-trifluoromethyl-2,5-phenylene diisocyanate, b7 105-7.degree..
ACCESSION NUMBER: 1970:78563 CAPLUS
DOCUMENT NUMBER: 72:78563
TITLE: Perfluoroalkylphenylene diisocyanates and their derivatives
AUTHOR(S): Malichenko, B. F.; Tsypina, O. N.
CORPORATE SOURCE: Inst. Khim. Vysokomol. Soedin., Kiev, USSR
SOURCE: Zh. Obshch. Khim. (1969), 39(11), 2515-19
CODEN: ZOKHA4
DOCUMENT TYPE: Journal
LANGUAGE: Russian
IT **25620-69-3P 25620-73-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 25620-69-3 CAPLUS
CN Urea, 1,1'-[[5-(trifluoromethyl)-m-phenylene]bis(tetramethylene)]di- (8CI)
(CA INDEX NAME)



RN 25620-73-9 CAPLUS
CN Urea, 1,1'-[[2-(trifluoromethyl)-p-phenylene]bis(tetramethylene)]di- (8CI)
(CA INDEX NAME)

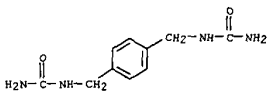
L21 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2001 ACS (Continued)



L21 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2001 ACS
AB p-(H2NCONHCH2)2C6H4 (I) or PhCH2NHCONH2 (II) is used as an antiager, esp. for transparent vulcanizates. Thus, 2 parts I or II is added to a rubber mixt. consisting of natural rubber 100, active ZnO 1, hydrated SiO2 35, stearin 1, diethylene glycol 2, S 25, mercaptobenzothiazole 1.6, and diphenylguanidine 0.3 part.
ACCESSION NUMBER: 1969:492484 CAPLUS
DOCUMENT NUMBER: 71:92484
TITLE: Vulcanizates resistants to aging
INVENTOR(S): Czyzewicz, Jerzy; Pieniazek, Jan
PATENT ASSIGNEE(S): Instytut Przemyslu Gumowego
SOURCE: Pol., 2 pp.
CODEN: POXXA7
DOCUMENT TYPE: Patent
LANGUAGE: Polish
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PL 57328		19690515	PL	19670720

IT **3840-25-3**
RL: USES (Uses)
(as antioxidant for rubbers)
RN 3840-25-3 CAPLUS
CN Urea, 1,1'-(p-phenylenedimethylene)di- (7CI, 8CI) (CA INDEX NAME)



L21 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2001 ACS
GI For diagram(s), see printed CA Issue.
AB Title compds. (I, R = H) were prepd. from 5-substituted salicylamides (II)
by LiAlH4 redn. of the benzylation products (II), R = R2 = PhCH2), followed by hydrogenolysis. II.HCl (R = R1 = R2 = H, R3 = tert-Bu) (50 g.), 65.7 g. PhCH2Cl, 12.5 g. NaI, 36 g. K2CO3, and 750 ml. EtCOMe was refluxed 5 hrs. to give 45 g. II (R = R2 = PhCH2, R1 = H, R3 = tert-Bu), m. 136-7.degree. (Et-OAc-light petroleum), which (15 g.) was reduced with 3 g. LiAlH4 in 375 ml. tetrahydrofuran (THF) to give 3-aminomethyl-.alpha.-[(benzyl-tert-butylamino)methyl]-4-benzyloxybenzyl alc. (I, R = R4 = PhCH2, R1 = R2 = R3 = H, R5 = tert-Bu) (III), an oil; disalicylate m. 165-6.degree. (EtOAc-Et2O). Similarly prepd. were II (R = R2 = PhCH2, R1 = Et, R3 = iso-Pr), m. 142.degree., and I (R = R4 = PhCH2, R1 = R2 = H, R3 = Et, R5 = iso-Pr), an oil. III was converted by standard methods into the following N-mono-substituted benzylamines (I, R = R4 = PhCH2, R2 = R3 = H, R5 = tert-Bu) (R1 and m.p. given): SO2Me (IV), 100-1.degree. (Et2O-light petroleum); SO2Ph, 92-4.degree. (Et2O-cyclohexane); SO2Bu, - [HCl salt m. 181-2.degree. (decompn.) (MeOH-EtOAc)]; SO2Pr-iso, - [HCl salt m. 174.degree. (MeOH-Et2O)]; SO2CH2Ph, - (HCl salt m. 181.degree.); Ac, -; COCF3, - (oil); Bz, -; CHO (V), -; CO2Et, - (oil); CONEt2, -; CONH2, -. IV was hydrogenated over 10% Pd-C to give I (R = R2 = R3 = R4 = H, R1 = SO2Me, R5 = tert-Bu) as a deliquescent solid, m. 60-80.degree.; acetate m. 171.degree. (MeOH-Et2O); anisate m. 204 (MeOH-EtOAc). Similarly prepd. were the following I (R = R2 =R3 = R4 = H, R5 = tert-Bu) (R1 and m.p. given): SO2Bu, - [acetate m. 167-7.5.degree. (MeOH-EtOAc)]; SO2Ph, - [acetate m. 193-5.degree.) (decompn.) (MeOH-EtOAc)]; SO2Pr-iso, 189.degree. (MeOH); H, - [disalicylate m. 180-1.degree. (MeOH-EtOAc)]; Ac, - [acetate m. 185.degree. (MeOH-EtOAc)]; COCF3, - [HCl salt m. 179.degree. (MeOH-EtOAc-Et2O)]; CHO, - [acetate m. 169-70.degree. (decompn.) (MeOH-EtOAc)]; CO2Et, - [acetate m. 179-81 .degree.(MeOHEtOAc)]; CONEt2, - [HCl salt m. 198-200.degree. (MeOH-Et2O)]; CONH2, - [fumarate monohydrate m. 172.7.degree. (MeOH-Et-OAc)]. V was reduced with LiAlH4 in THF to give I (R = R4 = PhCH2, R1 = Me, R2 = R3 = H, R5 = tert-Bu) (VI), an oil (di-HCl salt m. 157-9.degree. (Me2CO)], which treated with MeSO2Cl gave I.HCl (R = R4 = PhCH2, R1 = Me, R2 = SO2Me, R3 = H, R5 = tert-Bu), m. 179.degree. (EtOAc), hydrogenated over Pd-C to give I (R = R3 = R4 = H, R1 = Me, R2 = SO2Me, R5 = tert-Bu) as a brittle solid; acetate m. 154.degree. (MeOH-Et2O). VI was refluxed 33 hrs. with dry HCO2Et, the solvent removed in vacuo, and the residue hydrogenated over Pd-C to give I (R = R3 = R4 = H, R1 = Me, R2 = CHO, R5 = tert-Bu), an oil; acetate m. 160-2.degree. (MeOH-EtOAc). 4,3-AcO(ClCH2)C6H3Ac (90.4 g.) and 65 g. MeSO2NHAc Na salt in 500 ml. HCONMe2 (DMF) was heated to 100.degree., DMF distd. in vacuo, the residue in 500 ml. CHCl3 washed with H2O, the CHCl3 soln. dried and treated gradually with 20 ml. Br in 100 ml. CHCl3 to give 161 g. of an oil which (153 g.) with (PhCH2)2NH gave N-[2-benzyloxy-5-(N,N-dibenzylglycyl)benzyl]methanesulfonamide (VII), m. 92.degree.; maleate m. 179-80.degree. (MeOH). VII hydrogenated over 10% PdO-C gave I (R = R1 = R3 = R4 = R5 = H, R2 = SO2Me) (acetate m. 165.degree.) which (2 g.) was refluxed 2 hrs. with 1.3 g. p-MeOC6H4CH2Ac in 40 ml. EtOH, followed by hydrogenation at 60.degree. over 10% Pt-C to give I (R = R1 = R3 = R4 = H, R2 = SO2Me, R5 = CH2CHMeC6H4OMe-p), m. 155.5-7.degree. (Me2COEt2O). Similarly prepd. were the following I (R = R1 = R3 = R4 = H, R2 = SO2Me) (R5 and m.p. given): CH2Ph, - (acetate m. 142.degree.]; cyclopentyl, 145-7.degree.; CHMeCH2OPh, - (acetate hemihydrate m. 87.5-9.degree.). I (R = H) show either stimulating or blocking activity on adrenergic .beta.-receptors.

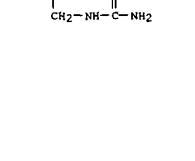
ACCESSION NUMBER: 1969:480928 CAPLUS
DOCUMENT NUMBER: 71:80928
TITLE: 2-Amino-1-(3-aminomethyl-4-hydroxyphenyl)ethanol derivatives
INVENTOR(S): Hartley, David; Jack, David; Lunts, Lawrence H. C.
PATENT ASSIGNEE(S): Allen and Hanburys Ltd.
SOURCE: Ger., Offen., 37 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1814974		19690703		

PRIORITY APPLN. INFO.: GB 19671221
IT **23527-61-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 23527-61-9 CAPLUS

L21 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2001 ACS
AB The reaction of phenols and hexamethylenetetramine (I) in the presence of urea (II) was studied. A mixt. of p-cresol 0.1, I 0.015, II 0.1 mole, and Ethyl Cellosolve 20 ml. was refluxed at 139.degree.. Samples were taken out at intervals; paper chromatog. using water and benzene-AcOH-water gave paper chromatograms which were compared with those of authentic compds. 2-Hydroxy-5-methylbenzylurea, 2,6-diureidomethyl-4-methylphenol, N,N'-bis(2-hydroxy-5-methylbenzyl)urea, and N,N-bis(2-hydroxy-5-methylbenzyl)urea were formed as intermediates. The reaction mechanisms are discussed. Phenol 1, I 0.10-0.31, and II 0-1.2 mole were heated at 155.degree. with stirring until the sample taken became solid at room temp. The reaction products were finely pulverized and washed with water to remove unchanged I and II, which were analyzed by an ir spectrophotometer. The amt. of combined II in the condensation product of Novolac type resin was 17% at the most.

ACCESSION NUMBER: 1969:438552 CAPLUS
DOCUMENT NUMBER: 71:38552
TITLE: Cocondensation of phenols and urea with hexamethylenetetramine
AUTHOR(S): Koya, Yoshimi; Sakaguchi, Teizo; Takahashi, Akio
CORPORATE SOURCE: Shinmeiko Ind., Yuki, Japan
SOURCE: Kagaku To Kogyo (Osaka) (1969), 43(3), 147-56
CODEN: KKGOAG
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
IT **22714-52-9**
RL: RCT (Reactant)
(as intermediate in cresol condensation with hexamethylenetetramine and urea)
RN 22714-52-9 CAPLUS
CN Urea, 1,1'-[(2-hydroxy-5-methyl-m-phenylene)dimethylene]di- (8CI) (CA INDEX NAME)



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DICTIONARY FILE UPDATES:  20 DEC 2001  HIGHEST RN 377724-19-1

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for more information.  See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

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Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED -    408 TO ITERATE

100.0% PROCESSED     408 ITERATIONS                              8 ANSWERS
SEARCH TIME: 00.00.02

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         6949 TO     9371
PROJECTED ANSWERS:               8 TO      329

L23           8 SEA SSS SAM L22

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100.0% PROCESSED    8947 ITERATIONS                           130 ANSWERS
SEARCH TIME: 00.00.05

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                                                   ENTRY    SESSION
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The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.


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=> s l24
L25          79 L24

=> d l25 1-79 abs ibib hitstr
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L25 ANSWER 1 OF 79 CAPLUS COPYRIGHT 2001 ACS

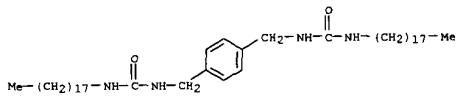
AB The films comprise polyolefins 100, urea-based lubricants 0.001-3, and F-contg. compds. 0.01-3 parts. The laminated films have layers of above films at least on outsides of greenhouses. Thus, a compn. for an outer layer contained LDPE (Sumikathene F 200) 60, LLDPE (Sumikathtene Alpha-FZ 225-1) 40, SiO2-type lubricant (Minsil 5) 0.3, a UV absorber (Viosorb 520) 0.1, glycerin stearate 2, a light stabilizer (Chimassorb 944) 0.4, a F compd. (Unidyne DS 403) DS 403 0.1, and a urea-based lubricant (Hackreen SX) 3 part. It was coextruded with an EVA (Evatate H 2081) compn. for an intermediate layer and an EVA (Evatate D 2011) compn. for an inner layer to give a 3-layered laminated film. A greenhouse covered with the film had no scratch by mica wires and good antifogging property after 12 and 3 mo, resp.

ACCESSION NUMBER: 2001:477398 CAPLUS
DOCUMENT NUMBER: 135:62409
TITLE: Polyolefin-based agricultural films and laminated agricultural films having excellent durability
INVENTOR(S): Machida, Toshimi; Takano, Tadahiro
PATENT ASSIGNEE(S): Achilles Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001178278	A2	20010703	JP 1999-363547	19991222

IT **65792-44-1**, Hackreen SX
RL: MOA (Modifier or additive use); USES (Uses)
(durable polyolefin agricultural films contg. F compds. and urea-type lubricants and their laminated films)

RN 65792-44-1 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-octadecyl- (9CI) (CA INDEX NAME)



L25 ANSWER 2 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

TITLE: Synthesis of non-peptidic cyclophilin binding compounds and their use in neuronal cell regeneration and neurodegenerative conditions
INVENTOR(S): Choi, Chi; Hamilton, Gregory; Steiner, Joseph; Vaal, Mark; Wei, Ling
PATENT ASSIGNEE(S): Guilford Pharmaceuticals Inc., USA
SOURCE: PCT Int. Appl., 57 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001017953	A1	20010315	WO 2000-US24481	20000906

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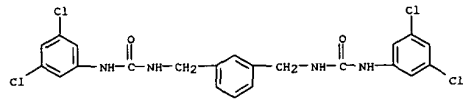
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

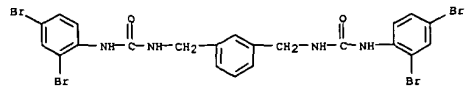
PRIORITY APPLN. INFO.: US 1999-392290 A 19990908
OTHER SOURCE(S): MARPAT 134:237307

IT **329765-33-5 329765-34-6 329765-35-7**
RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(synthesis and use of non-peptidic cyclophilin binding compds. as agents assocd. with neuronal degeneration)

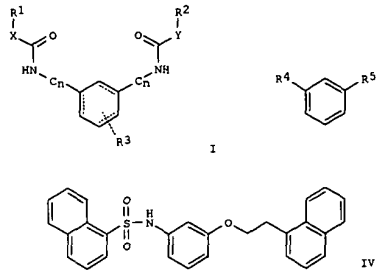
RN 329765-33-5 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-(3,5-dichlorophenyl)- (9CI) (CA INDEX NAME)



RN 329765-34-6 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-(2,4-dibromophenyl)- (9CI)
(CA INDEX NAME)



L25 ANSWER 2 OF 79 CAPLUS COPYRIGHT 2001 ACS
GI

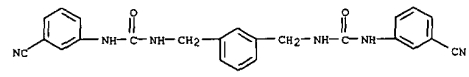


AB Uses of non-peptidic cyclophilin binding compds. I are claimed [wherein; Cn is 0 or 1; dashed bonds are optional; X, Y are N, NH, O, S or a bond; R1, R2 are one or more C1-C6 (branched)alk(en)yl groups substituted by one or more Q1 groups, where Q1 is optionally arom., mono-, bi- or tri(hetero)(substituted)cyclic and wherein the ring sizes are 5-6 members and may contain 1-6 heteroatoms chosen from O, N or S or a combination thereof; R3 is halo, OH, NO2, CF3, C1-C6 (branched)alkyl or alkenyl, NH2, C1-C4 alk(enyl)oxy, phenoxy, Q1 (as above) or a combination thereof]. Also claimed are uses of cyclophilin binding compds. II [wherein; R4, R5 are NSO2R, SO2NR2, OR, CONR, NCOR, COR where R is H, Q2 or a C1-C6 *(branched)alk(en)yl chain which may* be substituted by C3-C8 cycloalk(en)yl, OH or COO and where in said alk(en)yl chain one or more atoms are replaced by Q2 or optionally by O, S, SO, SO2 or N(H) (where Q2 is as described above for Q1 with the proviso that the cyclic system may be satd.)] and II [R3, R4 are H, Q1(Q2) or C1-C6 (substituted)alk(en)yl, etc., where Q1 and Q2 are as above; III]. Biol. data for 25 examples of compds. I, II and III are provided. Synthesis of IV was achieved by the sulfonylation of 3-(2-naphth-1-ylethoxy)aniline with 1-naphthylsulfonyl chloride in dimethylacetamide in the presence of triethylamine. Compds. of formula I, II and III bind to cyclophilin type proteins, inhibiting their rotamase activity with an IC50 of 1 .mu.M or less. The activity of these compds. is also characterized by percentage of inhibition of rotamase activity at 10 .mu.M. Compd. III exhibited an IC50 of 0.83 *.mu.M* toward cyclophilin A rotamase and inhibited 100% of that activity at a concn. of 10 .mu.M. Pharmaceutical prepns. of compds. I, II and III for neurodegenerative and neuropathic conditions and peripheral neuropathy are claimed uses.

ACCESSION NUMBER: 2001:185713 CAPLUS
DOCUMENT NUMBER: 134:237307

L25 ANSWER 2 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 329765-35-7 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-(3-cyanophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 13
REFERENCE(S): (2) Agafonov, N; IZV AKAD NAUK SSSR, SER KHIM 1988, 4, P835 CAPLUS
(3) Brown, G; WO 9959959 A 1999 CAPLUS
(4) Comanita; 1975, 21, CAPLUS
(5) Comanita; BUL INST POLITEH IASI, SECT 2 1973, V19(3-4), P123 CAPLUS
(6) Grabowski; 1997, 17, CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 3 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB A system for the rapid characterization of multi-analyte fluids, in one embodiment, includes a light source, a sensor array, and a detector. The sensor array is formed from a supporting member into which a plurality of cavities may be formed. A series of chem. sensitive particles are, in one embodiment positioned within the cavities. The particles may be configured to produce a signal when a receptor coupled to the particle interacts with the analyte. Using pattern recognition techniques, the analytes within a multi-analyte fluid may be characterized.

ACCESSION NUMBER: 2001:64262 CAPLUS
DOCUMENT NUMBER: 134:128190
TITLE: Detection system based on an analyte reactive particle
INVENTOR(S): Mcdevitt, John T.; Analyn, Eric V.; Shear, Jason B.; Neikirk, Dean P.
PATENT ASSIGNEE(S): Board of Regents, the University of Texas System, USA
SOURCE: PCT Int. Appl., 218 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001006253	A2	20010125	WO 2000-US19302	20000714

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 1999-144126 P 19990716
US 1999-144435 P 19990716
US 1999-144436 P 19990716

OTHER SOURCE(S): MARPAT 134:128190

IT **321660-84-8 321660-85-9 321660-86-0 321660-87-1 321660-88-2 321660-89-3 321660-90-6 321660-91-7 321660-92-8**

RL: BAC (Biological activity or effector, except adverse); PEP (Physical, engineering or chemical process); PRP (Properties); BIOL (Biological study); PROC (Process)
(response to ATP; detection system based on analyte reactive particle)

RN 321660-84-8 CAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, 1-monoether with 1,1'-[[5-[[[[[[(1S)-5-[[[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-1-[[(2-hydroxyethyl)amino]carbonyl]pentyl]amino]carbonyl]amino]methyl]-2,4,6-triethyl-1,3-phenylene]bis(methyleneiminocarbonimidoylimino-2,1-ethanediyl)]bis[L-histidyl-L-alanyl-N-[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl)carbonyl]-L-.alpha.-asparagine] (9CI) (CA INDEX NAME)

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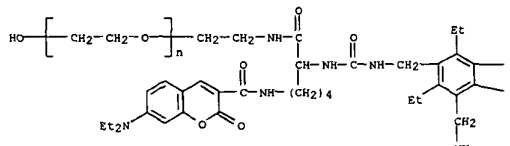

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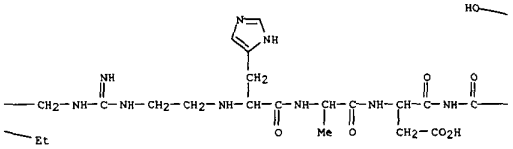

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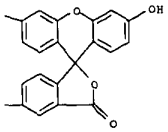

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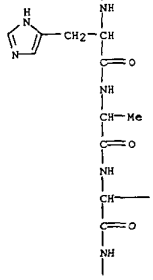

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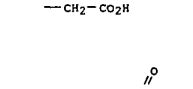

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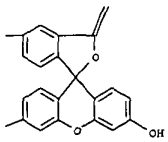
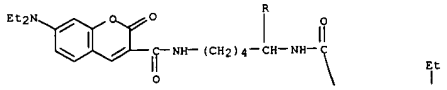


RN 321660-85-9 CAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, 1-monoether with 1,1'-[[5-[[[[[[(1S)-5-[[[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-1-[[(2-hydroxyethyl)amino]carbonyl]pentyl]amino]carbonyl]amino]methyl]-2,4,6-triethyl-1,3-phenylene]bis(methyleneiminocarbonimidoylimino-2,1-ethanediyl)]bis[L-.alpha.-glutamyl-L-prolyl-N-[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl)carbonyl]-L-threoninamide] (9CI) (CA INDEX NAME)

PAGE 1-A



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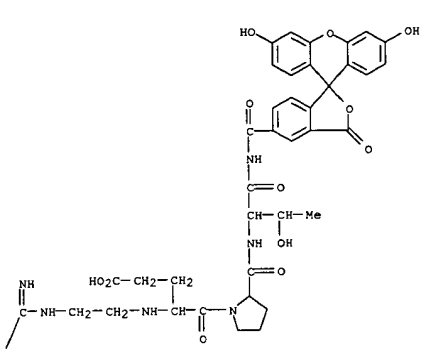

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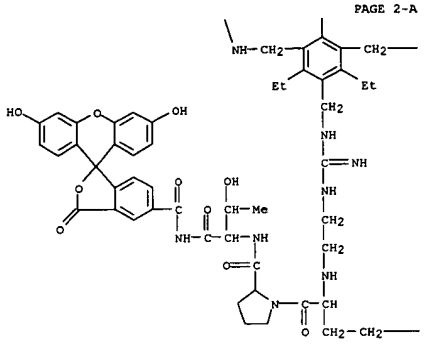

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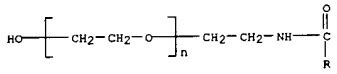
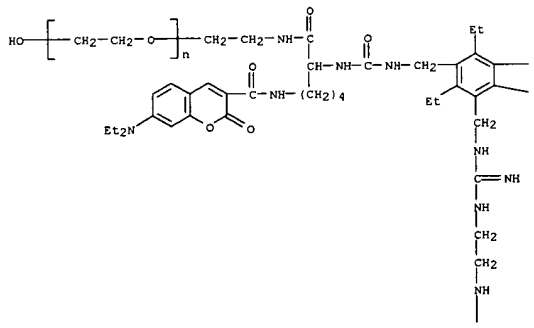


RN 321660-86-0 CAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, 12-monoether with 1,1'-[[5-[[[[[(1S)-5-[[[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-1-[[(2-hydroxyethyl)amino]carbonyl]pentyl]amino]carbonyl]amino]methyl]-2,4,6-triethyl-1,3-phenylene]bis(methyleneiminocarbonimidoylimino-2,1-ethanediyl)]bis[L-threonyl-L-valyl-N-[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl)carbonyl]-L-.alpha.-asparagine] (9CI) (CA INDEX NAME)

PAGE 1-A



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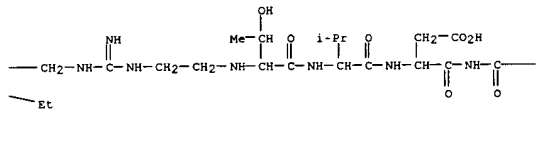

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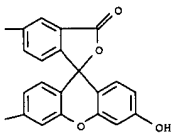

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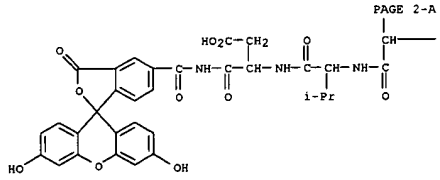


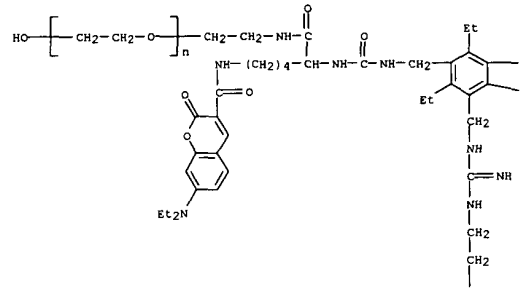
PAGE 2-B

L25 ANSWER 3 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 321660-87-1 CAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, 1-monoether with 1,1'-[[5-[[[[[(1S)-5-[[[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-1~[[(2-hydroxyethyl)amino]carbonyl]pentyl]amino]carbonyl]amino]methyl]-2,4,6-triethyl-1,3-phenylene]bis(methyleneiminocarbonimidoylimino-2,1-ethanediyl)]bis[L-methionyl-L-threonyl-N-[(3',6'-dihydroxy-3-*oxospiro[isobenzofuran*-1(3H),9'-[9H]xanthen]-5-yl)carbonyl]-L-histidinamide] (9CI) (CA INDEX NAME)

PAGE 1-A



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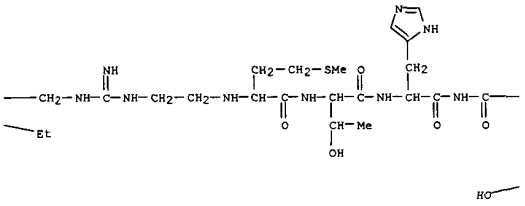

L25 ANSWER 3 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

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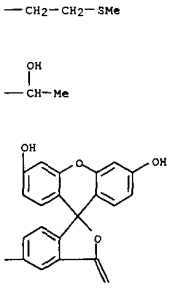

PAGE 3-A

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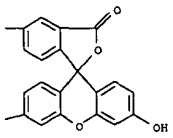
RN 321660-88-2 CAPLUS

CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, 1-monoether with 1,1'-[[5-[[[[[(1S)-5-[[[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-yl]carbonyl]amino]-1-[[(2-hydroxyethyl)amino]carbonyl]pentyl]amino]carbonyl]amino]methyl]-2,4,6-triethyl-1,3-phenylene]bis(methyleneiminocarbonimidoylimino-2,1-ethanediyl)]bis[L-.alpha.-aspartyl-L-alanyl-N-[(3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl)carbonyl]-L-.alpha.-asparagine] (9CI) (CA INDEX NAME)

L25 ANSWER 3 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

PAGE 1-C



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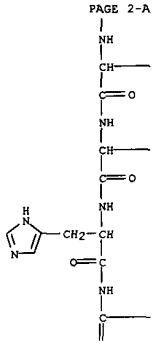

L25 ANSWER 3 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

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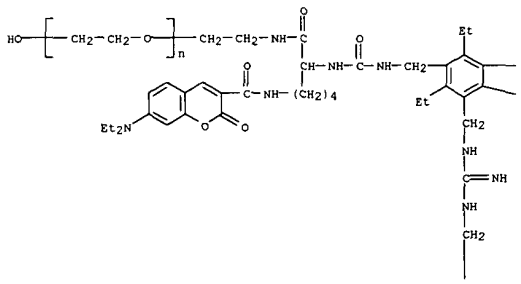

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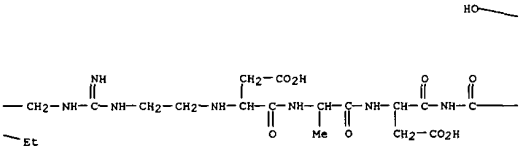

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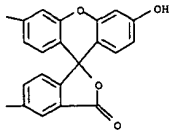

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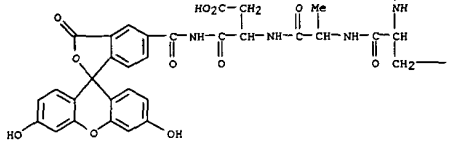

PAGE 2-B

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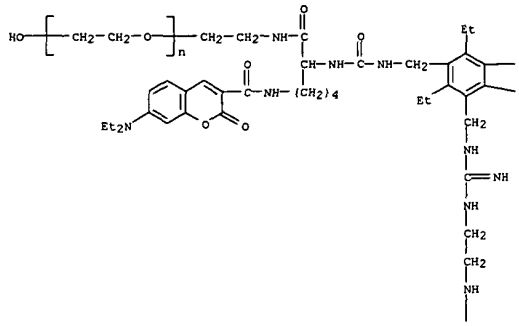
PAGE 1-A



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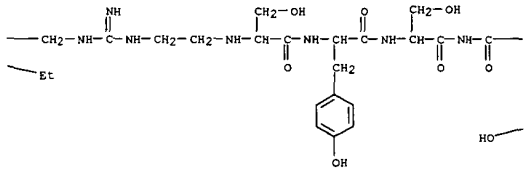

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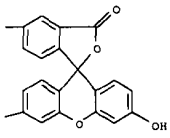

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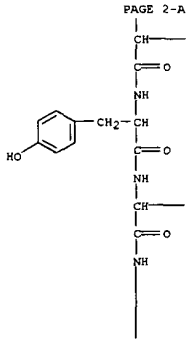

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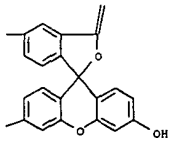


RN 321660-90-6 CAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, 1-monoether with

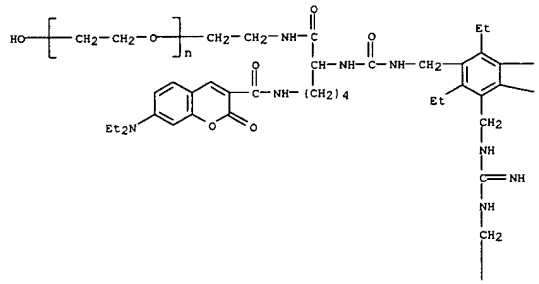
L25 ANSWER 3 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)
1,1'-[[5-[[[[[(1S)-5-[[[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-

yl]carbonyl]amino]-1-[[(2-hydroxyethyl)amino]carbonyl]pentyl]amino]carbony

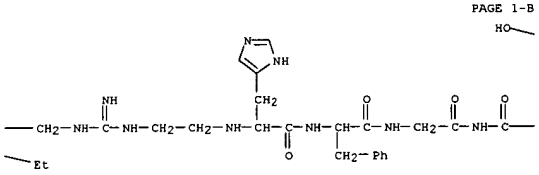
l]amino]methyl]-2,4,6-triethyl-1,3-phenylene]bis(methyleneiminocarbonimido

ylimino-2,1-ethanediyl)]bis[L-histidyl-L-phenylalanyl-N-[(3',6'-dihydroxy-
3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl)carbonyl]glycinamide]
(9CI) (CA INDEX NAME)

PAGE 1-A

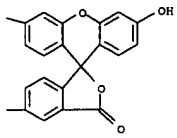


PAGE 1-B

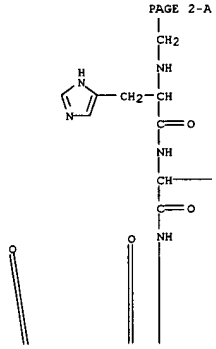


L25 ANSWER 3 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

PAGE 1-C



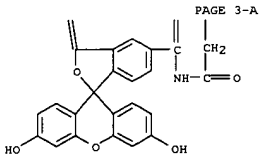
PAGE 2-A



PAGE 2-B

—CH2—Ph

L25 ANSWER 3 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

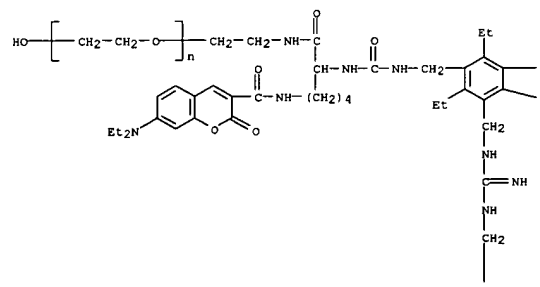


RN 321660-91-7 CAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, 12-monoether
with 1,1'-[[5-[[[[[(1S)-5-[[[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-

yl]carbonyl]amino]-1-[[(2-hydroxyethyl)amino]carbonyl]pentyl]amino]carbony

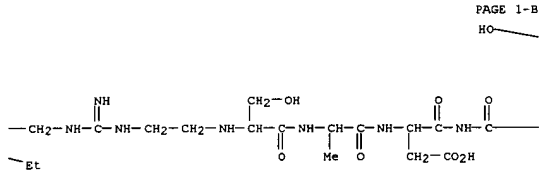
l]amino]methyl]-2,4,6-triethyl-1,3-phenylene]bis(methyleneiminocarbonimido
ylimino-2,1-ethanediyl)]bis[L-seryl-L-alanyl-N-[(3',6'-dihydroxy-3-
oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl)carbonyl]-L-.alpha.-
asparagine] (9CI) (CA INDEX NAME)

PAGE 1-A

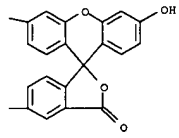


L25 ANSWER 3 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

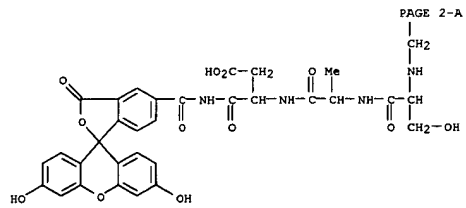
PAGE 1-B



PAGE 1-C



PAGE 2-A



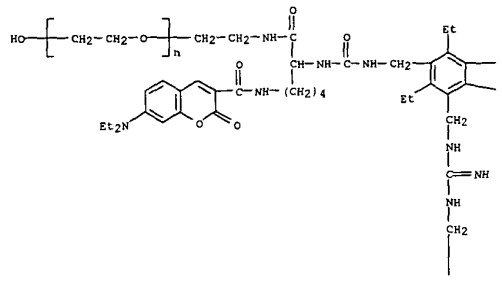
RN 321660-92-8 CAPLUS
CN Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, 1-monoether
with
1,1'-[[5-[[[[[(1S)-5-[[[7-(diethylamino)-2-oxo-2H-1-benzopyran-3-

yl]carbonyl]amino]-1-[[(2-hydroxyethyl)amino]carbonyl]pentyl]amino]carbony

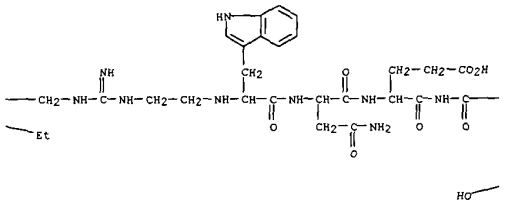
l]amino]methyl]-2,4,6-triethyl-1,3-phenylene]bis(methyleneiminocarbonimido

ylimino-2,1-ethanediyl)]bis[L-tryptophyl-L-asparaginyl-N-[(3',6'-dihydroxy-
3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl)carbonyl]-L-.alpha.-
glutamine] (9CI) (CA INDEX NAME)

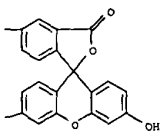
PAGE 1-A



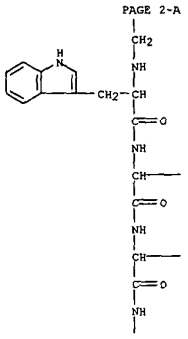
PAGE 1-B



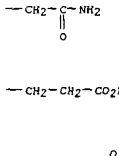
PAGE 1-C



PAGE 2-A

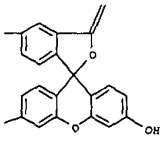


PAGE 2-B



PAGE 3-A

PAGE 3-B



L25 ANSWER 4 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB The viscosity of supercrit. CO2 is increased by combining a compd. having a CO2-philic functional group, such as a fluoroalkyl, siloxane or alkylene oxide group, and an aggregating functional group, such as an amide, urea, carboxylic acid, or thiourea group, which enables the compd. to form a supramol. network in soln. with supercrit. CO2. The compd. is aggregated in soln. to form a supramol. network such that the viscosity of the supercrit. CO2 with the supramol. network is greater than that of the starting supercrit. CO2. The gels are useful as fracturing fluids, solvents for paints and oils, in coatings or insulating materials, or as fillers (no data). A microcellular foam is prepd. by combining a compd. having a CO2-philic functional group and an aggregating functional group which enables the compd. to form a supramol. network in soln. with supercrit. CO2, then removing the CO2. The microcellular foams can also be used for low-d. structural parts, high-temp. insulation, sepn. media, adsorbents, and catalyst supports (no data).

ACCESSION NUMBER: 2000:421213 CAPLUS
DOCUMENT NUMBER: 133:59703
TITLE: Association of compounds in carbon dioxide and the gels and/or microcellular foams therefrom for fracturing subterranean formations
INVENTOR(S): Beckman, Eric J.; Hamilton, Andrew D.; Huang, Zhihua; Carr, Andrew; Enick, Robert M.
PATENT ASSIGNEE(S): Yale University, USA
SOURCE: PCT Int. Appl., 101 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000035998	A2	20000622	WO 1999-US29574	19991215
WO 2000035998	A3	20001019		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

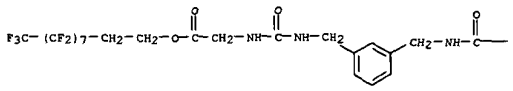
PRIORITY APPLN. INFO.: US 1998-112188 P 19981215
US 1999-166164 P 19991118

IT **277750-54-6P 277750-64-8P 277750-68-2P**
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(assocn. of compds. in carbon dioxide and gels and/or microcellular foams therefrom for fracturing subterranean formations)

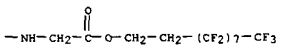
RN 277750-54-6 CAPLUS
CN Glycine, N,N'-[1,3-phenylenebis(methyleneiminocarbonyl)]bis-, bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) ester (9CI)
(CA INDEX NAME)

L25 ANSWER 4 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

PAGE 1-A



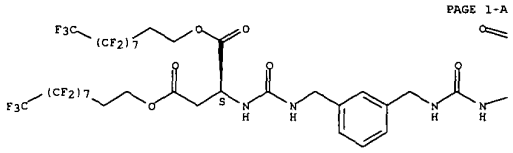
PAGE 1-B



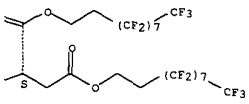
RN 277750-64-8 CAPLUS
CN L-Aspartic acid, N,N'-[1,3-phenylenebis(methyleneiminocarbonyl)]bis-, tetrakis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

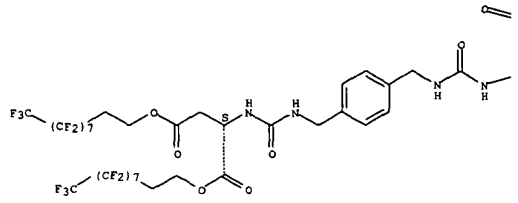


RN 277750-68-2 CAPLUS
CN L-Aspartic acid, N,N'-[1,4-phenylenebis(methyleneiminocarbonyl)]bis-, tetrakis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl) ester (9CI) (CA INDEX NAME)

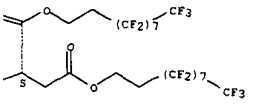
Absolute stereochemistry.

L25 ANSWER 4 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

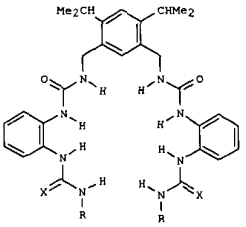
PAGE 1-A



PAGE 1-B



L25 ANSWER 5 OF 79 CAPLUS COPYRIGHT 2001 ACS
GI



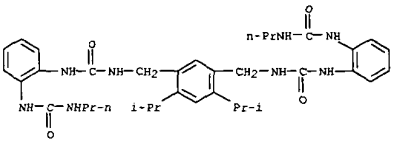
I

AB Macrocyclic and acyclic cleft-like anion receptors I [X = O, R = Pr, Ph, SO2Ph; X = S, R = Ph; X = O, R2 = m-C6H4, CH2CH2], in which four hydrogen bond donating urea moieties are present in a preorganized fashion, were prepd. NMR spectroscopy shows complex formation with H2PO4- and Cl-. The cleft-like receptors bind H2PO4- in a 2:1 guest-host stoichiometry (Ka = 107 M-2) in DMSO, whereas Cl- is bound in a 1:1 stoichiometry (Ka = 103M-1). The macrocyclic receptors form a 1:1 complex with H2PO4- (Ka = 103 M-1 in DMSO) with a 100-fold selectivity for H2PO4- over Cl-.

ACCESSION NUMBER: 2000:55453 CAPLUS
DOCUMENT NUMBER: 132:207839
TITLE: Neutral anion receptors with multiple urea-binding sites
AUTHOR(S): Snellink-Ruel, Bianca H. M.; Antonisse, Martijn M. G.; Engbersen, Johan F. J.; Timmerman, Peter; Reinhoudt, David N.
CORPORATE SOURCE: Department of Supramolecular Chemistry and Technology, MESA Research Institute, University of Twente, Enschede, NL-7500 AE, Neth.
SOURCE: Eur. J. Org. Chem. (2000), (1), 165-170
CODEN: EJOCFK; ISSN: 1434-193X
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **260402-79-7P 260402-80-0P 260402-81-1P 260402-82-2P 260402-86-6P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and anion binding of acyclic and macrocyclic urea-contg. receptors)
RN 260402-79-7 CAPLUS
CN 1-Butanaminium, N,N,N-tributyl-, phosphate, compd. with N,N''-[[4,6-bis(1-methylethyl)-1,3-phenylene]bis(methylene)]bis[N'-[2-[[(propylamino)carbonyl]amino]phenyl]urea] (2:2:1) (9CI) (CA INDEX NAME)

CM 1

L25 ANSWER 5 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)
CRN 246018-55-3
CMF C36 H50 N8 O4



CM 2

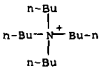
CRN 5574-97-0
CMF C16 H36 N . H2 O4 P

CM 3

CRN 14066-20-7
CMF H2 O4 P

CM 4

CRN 10549-76-5
CMF C16 H36 N

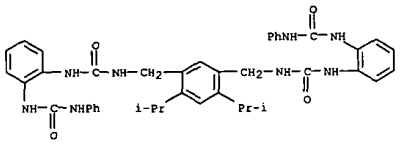


RN 260402-80-0 CAPLUS
CN 1-Butanaminium, N,N,N-tributyl-, phosphate, compd. with N,N''-[[4,6-bis(1-methylethyl)-1,3-phenylene]bis(methylene)]bis[N'-[2-[[(phenylamino)carbonyl]amino]phenyl]urea] (2:2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 246018-54-2
CMF C42 H46 N8 O4

L25 ANSWER 5 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)



CM 2

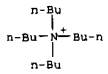
CRN 5574-97-0
CMF C16 H36 N . H2 O4 P

CM 3

CRN 14066-20-7
CMF H2 O4 P

CM 4

CRN 10549-76-5
CMF C16 H36 N

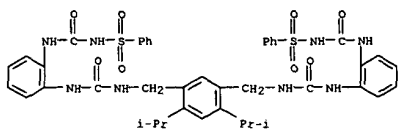


RN 260402-81-1 CAPLUS
CN 1-Butanaminium, N,N,N-tributyl-, phosphate, compd. with
N,N'-[[4,6-bis(1-methylethyl)-1,3-phenylene]bis(methyleneiminocarbonylimino-2,1-phenyleneiminocarbonyl)]bis[benzenesulfonamide] (2:2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 260402-78-6
CMF C42 H46 N8 O8 S2

L25 ANSWER 5 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)



CM 2

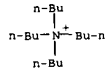
CRN 5574-97-0
CMF C16 H36 N . H2 O4 P

CM 3

CRN 14066-20-7
CMF H2 O4 P

CM 4

CRN 10549-76-5
CMF C16 H36 N

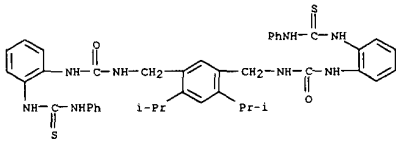


RN 260402-82-2 CAPLUS
CN 1-Butanaminium, N,N,N-tributyl-, phosphate, compd. with
N,N'-[[4,6-bis(1-methylethyl)-1,3-phenylene]bis(methylene)]bis[N'-[2-[[(phenylamino)thioxomethyl]amino]phenyl]urea] (2:2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 246018-56-4
CMF C42 H46 N8 O2 S2

L25 ANSWER 5 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)



CM 2

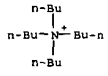
CRN 5574-97-0
CMF C16 H36 N . H2 O4 P

CM 3

CRN 14066-20-7
CMF H2 O4 P

CM 4

CRN 10549-76-5
CMF C16 H36 N

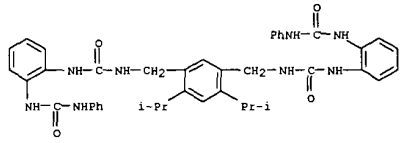


RN 260402-86-6 CAPLUS
CN 1-Butanaminium, N,N,N-tributyl-, chloride, compd. with
N,N'-[[4,6-bis(1-methylethyl)-1,3-phenylene]bis(methylene)]bis[N'-[2-[[(phenylamino)carbonyl]amino]phenyl]urea] (1:1) (9CI) (CA INDEX NAME)

CM 1

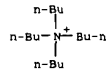
CRN 246018-54-2
CMF C42 H46 N8 O4

L25 ANSWER 5 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)



CM 2

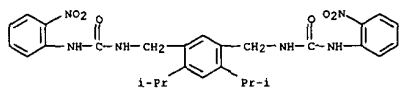
CRN 1112-67-0
CMF C16 H36 N . Cl



● Cl⁻

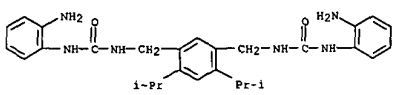
IT **246018-52-0P 246018-53-1P 246018-54-2P**
246018-55-3P 246018-56-4P 260402-78-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and anion binding of acyclic and macrocyclic urea-contg. receptors)

RN 246018-52-0 CAPLUS
CN Urea, N,N''-[[4,6-bis(1-methylethyl)-1,3-phenylene]bis(methylene)]bis[N'-(2-nitrophenyl)- (9CI) (CA INDEX NAME)

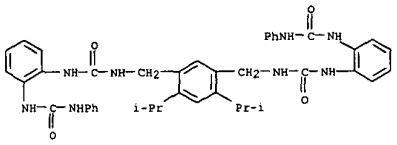


RN 246018-53-1 CAPLUS
CN Urea, N,N''-[[4,6-bis(1-methylethyl)-1,3-phenylene]bis(methylene)]bis[N'-(2-aminophenyl)- (9CI) (CA INDEX NAME)

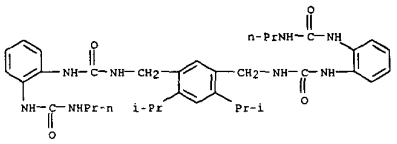
L25 ANSWER 5 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)



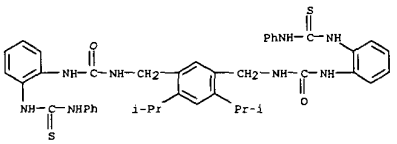
RN 246018-54-2 CAPLUS
CN Urea, N,N''-[[4,6-bis(1-methylethyl)-1,3-phenylene]bis(methylene)]bis[N'-[2-[[(phenylamino)carbonyl]amino]phenyl]- (9CI) (CA INDEX NAME)



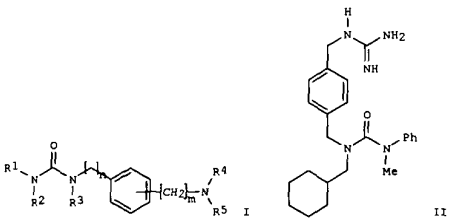
RN 246018-55-3 CAPLUS
CN Urea, N,N''-[[4,6-bis(1-methylethyl)-1,3-phenylene]bis(methylene)]bis[N'-[2-[[(propylamino)carbonyl]amino]phenyl]- (9CI) (CA INDEX NAME)



RN 246018-56-4 CAPLUS
CN Urea, N,N''-[[4,6-bis(1-methylethyl)-1,3-phenylene]bis(methylene)]bis[N'-[2-[[(phenylamino)thioxomethyl]amino]phenyl]- (9CI) (CA INDEX NAME)



L25 ANSWER 6 OF 79 CAPLUS COPYRIGHT 2001 ACS
GI

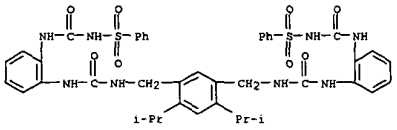


AB The title compds. [I; m, n = 1-3, and one or more of the hydrogens in such
an alkylene-chain may optionally be substituted by alkyl, alkoxy or OH; or
one or more of the methylene groups may optionally be substituted by a heteroatom such as O, N or S; R1 = H, alkyl, alkenyl, etc.; R2 = H, alkyl,
alkenyl, etc.; R1 and R2 may optionally form a heterocyclic ring; R3 = H, alkyl, alkenyl, etc.; R4, R5 = H, alkyl, alkenyl, etc.; R4 and R5 may optionally form a heterocyclic ring), useful in therapy (no data), in particular in the management of pain, and also in treating gastrointestinal disorders, spinal injuries, and disorders of sympathetic nervous system, and, when isotopically labeled, as diagnostic agents, were
prepd. E.g., a multi-step synthesis of II, starting with p-xylylenediamine, was given.

ACCESSION NUMBER: 1999:819338 CAPLUS
DOCUMENT NUMBER: 132:49803
TITLE: Preparation of 1-(N-substituted)aminomethyl-4-(or 3-)-guanidinomethylbenzenes useful in the management of pain
INVENTOR(S): Delorme, Daniel; Gregor, Vlad; Roberts, Edward; Sun, Eric
PATENT ASSIGNEE(S): Astra Pharma Inc., Can.; Astra AB
SOURCE: PCT Int. Appl., 83 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

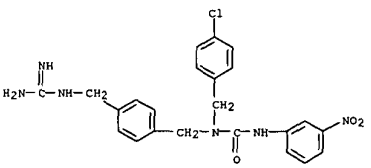
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9967204	A1	19991229	WO 1999-SE1075	19990616
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,				

L25 ANSWER 5 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)
RN 260402-78-6 CAPLUS
CN Benzenesulfonamide, N,N'-[[4,6-bis(1-methylethyl)-1,3-phenylene]bis(methyleneiminocarbonylimino-2,1-phenyleneiminocarbonyl)]bis- (9CI) (CA INDEX NAME)

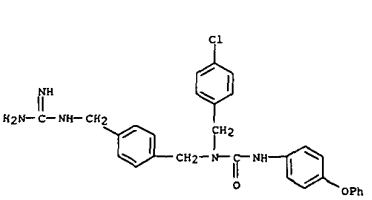


REFERENCE COUNT: 26
REFERENCE(S):
(1) Antonisse, M; Chem Commun 1998, P443 CAPLUS
(2) Beer, P; J Chem Soc 1995, P3117 CAPLUS
(4) Bisson, A; Angew Chem Int Ed 1997, V36, P2340 CAPLUS
(5) Buhlmann, P; Tetrahedron 1997, V53, P1647 CAPLUS
(6) Casnati, A; Gazz Chim Ital 1996, V126, P99 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 6 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)
JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
AU 9948146 A1 20000110 AU 1999-48146 19990616
EP 1089965 A1 20010411 EP 1999-931710 19990616
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
PRIORITY APPLN. INFO.: SE 1998-2209 A 19980622
WO 1999-SE1075 W 19990616
OTHER SOURCE(S): MARPAT 132:49803
IT **252956-29-9P 252956-30-2P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of 1-(N-substituted)aminomethyl-4-(or 3-)-guanidinomethylbenzenes useful in the management of pain)
RN 252956-29-9 CAPLUS
CN Urea, N-[[4-[[(aminoiminomethyl)amino]methyl]phenyl]methyl]-N-[(4-chlorophenyl)methyl]-N'-(3-nitrophenyl)- (9CI) (CA INDEX NAME)



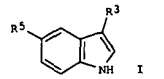
RN 252956-30-2 CAPLUS
CN Urea, N-[[4-[[(aminoiminomethyl)amino]methyl]phenyl]methyl]-N-[(4-chlorophenyl)methyl]-N'-(4-phenoxyphenyl)- (9CI) (CA INDEX NAME)



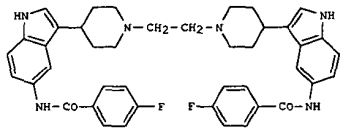
REFERENCE COUNT: 7
REFERENCE(S):
(1) Aziende Colori Nazionali Affini Acna SPA; GB

L25 ANSWER 6 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)
1554543 A 1979 CAPLUS
(2) Bayer Corporation; WO 9852558 A1 1998 CAPLUS
(3) Bristol-Myers Squibb Company; WO 9737646 A1 1997 CAPLUS
(4) Fujisawa Pharmaceutical Co, Ltd; WO 9639382 A1 1996 CAPLUS
(5) Fujisawa Pharmaceutical Co, Ltd; EP 0144853 A2 1985 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 7 OF 79 CAPLUS COPYRIGHT 2001 ACS
GI



I



II

AB Novel multibinding piperidinylindole compds, LpXq [where L = a ligand capable of binding to a 5-HT receptor; X = a linker; p = 2-10; q = 1-2], that modulate 5-HT receptors are disclosed. Preferred ligands are of formula I [where R3 and R5 = independently point of attachment of the linker, H, alkyl, heterocyclic, heteroaryl(alkyl), amidoalkyl, (di)alkylaminosulfonylalkyl, arylsulfonylalkyl, heterocyclosulfonylalkyl, arylcarbonylamino, alkylsulfonamido, or alkylsufonylalkyl]. Over 140 multibinding compds., formed from two piperidinylindole derivs. and a difunctional linker, were prepd. For example, condensation of 5-(4-fluorobenzoyl)amino-3-(piperidin-4-yl)-1H-indole with 1,2-dibromoethane at 72.degree. in DMF, after workup and chromatog., yielded the dimer II. Compds. of this invention are useful in the treatment of migraine, headache, itch, motion sickness, depression, emesis, memory loss, anxiolytic disorders, obesity, gastrointestinal disorders, and irritable bowel syndrome (no data). The multibinding compds. provide greater biol. and/or therapeutic effects than the aggregate of the unlinked ligands due to their multibinding properties (no data). Combinatorial arrays, methods of synthesis, and methods of assaying the dimeric and multimeric compds. are also embodied by the invention.

ACCESSION NUMBER: 1999:795681 CAPLUS
DOCUMENT NUMBER: 132:35606
TITLE: Preparation of multibinding piperidinylindole derivatives as therapeutic agents that modulate 5-HT receptors
INVENTOR(S): Marquess, Daniel; Griffin, John H.; Choi, Seok-Ki
PATENT ASSIGNEE(S): Advanced Medicine, Inc., USA
SOURCE: PCT Int. Appl., 190 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 23
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9964044	A1	19991216	WO 1999-US12751	19990607
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9945435	A1	19991230	AU 1999-45435	19990604
EP 1003540	A1	20000531	EP 1999-928344	19990604
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AU 9944234	A1	19991230	AU 1999-44234	19990607
AU 9944253	A1	19991230	AU 1999-44253	19990607
AU 9944265	A1	19991230	AU 1999-44265	19990607
AU 9945491	A1	19991230	AU 1999-45491	19990607
AU 9945520	A1	19991230	AU 1999-45520	19990607
AU 9946727	A1	19991230	AU 1999-46727	19990607
AU 9946751	A1	19991230	AU 1999-46751	19990607
AU 9946752	A1	19991230	AU 1999-46752	19990607
AU 9946754	A1	19991230	AU 1999-46754	19990607
EP 1019360	A1	20000719	EP 1999-930123	19990607
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EP 1080080	A1	20010307	EP 1999-930158	19990607
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EP 1083917	A1	20010321	EP 1999-927291	19990607
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EP 1083918	A1	20010321	EP 1999-927317	19990607
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EP 1083893	A1	20010321	EP 1999-927331	19990607
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EP 1083888	A1	20010321	EP 1999-928425	19990607
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EP 1085887	A2	20010328	EP 1999-928349	19990607
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EP 1085870	A2	20010328	EP 1999-930157	19990607
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EP 1094826	A1	20010502	EP 1999-930156	19990607
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EP 1107753	A1	20010620	EP 1999-928457	19990607
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AU 9943368	A1	19991230	AU 1999-43368	19990608
AU 9943376	A1	19991230	AU 1999-43376	19990608
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AU 9952039	A1	19991230	AU 1999-52039	19990608
AU 9946776	A1	20000110	AU 1999-46776	19990608
EP 1082289	A1	20010314	EP 1999-930185	19990608
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EP 1083921	A1	20010321	EP 1999-955430	19990608
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EP 1085889	A2	20010328	EP 1999-928451	19990608
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EP 1085847	A2	20010328	EP 1999-928520	19990608
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EP 1085868	A1	20010328	EP 1999-930150	19990608
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EP 1102597	A1	20010530	EP 1999-955431	19990608
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US 6288055	B1	20010911	US 2000-499476	20000207

PRIORITY APPLN. INFO.:
US 1998-88466 P 19980608
US 1998-92938 P 19980715
US 1998-96606 P 19980814
WO 1999-US11786 W 19990604
US 1999-327044 B1 19990607
WO 1999-US11803 W 19990607
WO 1999-US11805 W 19990607
WO 1999-US12669 W 19990607
WO 1999-US12673 W 19990607
WO 1999-US12727 W 19990607
WO 1999-US12728 W 19990607
WO 1999-US12730 W 19990607
WO 1999-US12731 W 19990607
WO 1999-US12751 W 19990607
WO 1999-US12778 W 19990607
WO 1999-US12782 W 19990607
WO 1999-US12626 W 19990608
WO 1999-US12770 W 19990608
WO 1999-US12876 W 19990608
WO 1999-US12907 W 19990608
WO 1999-US12989 W 19990608
WO 1999-US12994 W 19990608
WO 1999-US12995 W 19990608

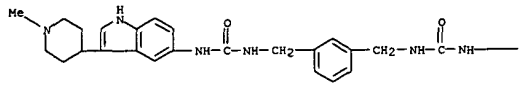
OTHER SOURCE(S): MARPAT 132:35606

IT **252354-86-2P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(target compd.; prepn. of multibinding piperidinylindole derivs. as therapeutic agents that modulate 5-HT receptors and are useful for the treatment of migraine)

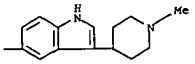
RN 252354-86-2 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-[3-(1-methyl-4-piperidinyl)-1H-indol-5-yl]- (9CI) (CA INDEX NAME)

L25 ANSWER 7 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

PAGE 1-A

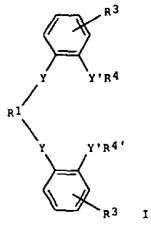


PAGE 1-B



REFERENCE COUNT: 10
REFERENCE(S):
(1) Booher; US 5244912 A 1993 CAPLUS
(2) Booher; US 5364856 A 1994 CAPLUS
(3) Cliffe; Tet Let 1991, V32(46), P6789 CAPLUS
(4) Halazy; US 5726177 A 1998 CAPLUS
(5) Karim; Pharmacology 1996, V52, P685 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 8 OF 79 CAPLUS COPYRIGHT 2001 ACS
GI



AB Disclosed is an anion-complexing compd. (I) wherein R1 and A represent an arom. 6-ring, Y' represents a -NHC(X)NH-group, and Y represents a rest selected from the group -NHC(X')-, -C(X')NH- and -NHC(X')NH-, wherein X and X', independently of one another, represent a sulfur or oxygen atom. R4, R4' are either identical representing a variety of groups, or together represent a group so that the compd. has a macrocyclic structure. The invention also relates to a method of prepg. such a compd., an ion-selective membrane as well as a sensor provided with such a compd. or membrane.

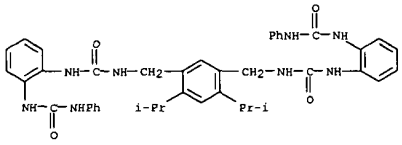
ACCESSION NUMBER: 1999:659356 CAPLUS
DOCUMENT NUMBER: 131:294892
TITLE: Anion-complexing compound, method of preparing the same, an ion-selective membrane and a sensor provided with such a compound or membrane
INVENTOR(S): Antonisse, Martijn Marcus Gabriel; Reinhoudt, David Nicolaas; Snellink-Ruel, Bianca Henriette Maria; Timmerman, Peter
PATENT ASSIGNEE(S): Stichting voor de Technische Wetenschappen, Neth.
SOURCE: PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9951570	A1	19991014	WO 1999-NL196	19990401
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

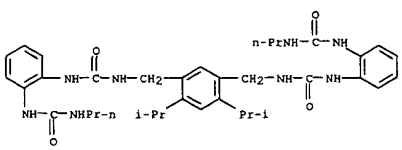
L25 ANSWER 8 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

NL 1008789	C2	19991005	NL 1998-1008789	19980402
AU 9931738	A1	19991025	AU 1999-31738	19990401
EP 1073629	A1	20010207	EP 1999-913743	19990401
R: AT, BE, CH, DE, DK, FR, GB, LI, NL, SE				
PRIORITY APPLN. INFO.:			NL 1998-1008789 A	19980402
			WO 1999-NL196 W	19990401

OTHER SOURCE(S): MARPAT 131:294892
IT **246018-54-2P 246018-55-3P 246018-56-4P**
RL: ARG (Analytical reagent use); DEV (Device component use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES
(Uses)
(anion detn. by ion-selective membrane sensor based on anion-complexing compd.)
RN 246018-54-2 CAPLUS
CN Urea, N,N''-[[4,6-bis(1-methylethyl)-1,3-phenylene]bis(methylene)]bis[N'-[2-[[(phenylamino)carbonyl]amino]phenyl]- (9CI) (CA INDEX NAME)

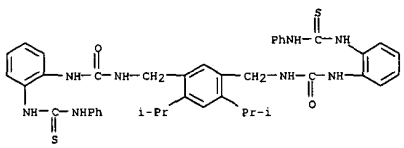


RN 246018-55-3 CAPLUS
CN Urea, N,N''-[[4,6-bis(1-methylethyl)-1,3-phenylene]bis(methylene)]bis[N'-[2-[[(propylamino)carbonyl]amino]phenyl]- (9CI) (CA INDEX NAME)

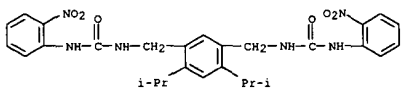


RN 246018-56-4 CAPLUS
CN Urea, N,N''-[[4,6-bis(1-methylethyl)-1,3-phenylene]bis(methylene)]bis[N'-[2-[[(phenylamino)thioxomethyl]amino]phenyl]- (9CI) (CA INDEX NAME)

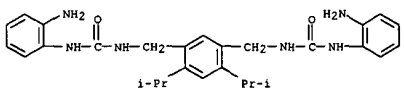
L25 ANSWER 8 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)



IT **246018-52-0P 246018-53-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(anion detn. by ion-selective membrane sensor based on anion-complexing compd.)
RN 246018-52-0 CAPLUS
CN Urea, N,N''-[[4,6-bis(1-methylethyl)-1,3-phenylene]bis(methylene)]bis[N'-(2-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 246018-53-1 CAPLUS
CN Urea, N,N''-[[4,6-bis(1-methylethyl)-1,3-phenylene]bis(methylene)]bis[N'-(2-aminophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3
REFERENCE(S):
(1) Carey, C; US 5180481 A 1993 CAPLUS
(2) Jigyodan, S; JP 04120049 A 1992 CAPLUS
(3) Nishizawa, S; ANALYTICA CHIMICA ACTA 1998, V358, P35 CAPLUS

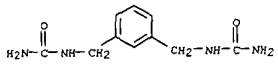
L25 ANSWER 9 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB A set of substituted bisguanidines have been prepd. and examd. for their ability to bind and catalyze the hydrolysis of uridylyl-3',5'-uridine (UpU), an unactivated RNA substrate in water. The unexpected result is that this set includes both catalysts (binding the transition state better than the ground state) and anticatalysts (binding the ground state better than the transition state), each with respectable rate enhancements and/or affinities, despite the fact that these mols. all have very similar structures. These results therefore show the level of sophistication that must be achieved in the conformational theory of small mols. if we hope to truly design supramol. structures that bind preferentially to a transition state over the ground state.

ACCESSION NUMBER: 1999:643337 CAPLUS
DOCUMENT NUMBER: 132:46384
TITLE: Catalysts, Anticatalysts, and Receptors for Unactivated Phosphate Diesters in Water
AUTHOR(S): Zepik, Helmut H.; Benner, Steven A.
CORPORATE SOURCE: Departments of Chemistry and Anatomy and Cell Biology, University of Florida, Gainesville, FL, 32611, USA
SOURCE: J. Org. Chem. (1999), 64(22), 8080-8083
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 132:46384

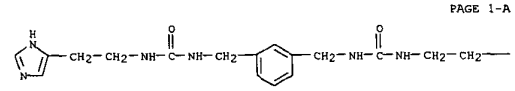
IT **3840-23-1P 252901-70-5P 252901-71-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of bisguanidines as catalysts, anticatalysts, and receptors for hydrolysis of unactivated phosphate diesters in water)

RN 3840-23-1 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis- (9CI) (CA INDEX NAME)



RN 252901-70-5 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-[2-(1H-imidazol-4-yl)ethyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



L25 ANSWER 9 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

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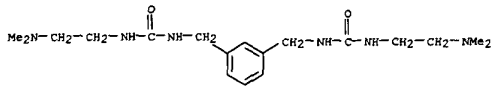
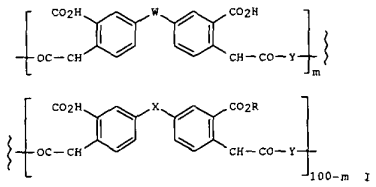
RN 252901-71-6 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-[2-(dimethylamino)ethyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 21
REFERENCE(S):
(1) Albery, W; Biochemistry 1976, V15, P5631 CAPLUS
(2) Bates, R; J Res Natl Bureau Stand A 1960, V64A, P343 CAPLUS
(4) Ciglic, M; Biochemistry 1998, V37, P4008 CAPLUS
(7) Gross, R; Liebigs Ann Chem 1994, P49 CAPLUS
(8) Jermann, T; Nature 1995, V374, P57 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 10 OF 79 CAPLUS COPYRIGHT 2001 ACS

GI



AB The pos.-working photosensitive compn. contains polyamic acid-polyamic acid ester I [W, X = SO, SO2, CO, C(CF3)2; Y = divalent org. group forming arom. diamine; m = 15-85 (mol%); R = C1-4 alkyl] and a photosensitive agent mixt. comprising Phn[ZNHC(O)NHT(DNQ)]p and A(DNQ)q (Z, A = Ph, benzyl; T = phenylene, alkylene, DNQ = 1,2-naphthoquione-2-diazido-5-sulfonyloxy, 1,2-naphthoquione-2-diazido-5-sulfonylamino; n = 0, 1; p, q = 1-3). The varnish consists of the polyamic acid-polyamic acid ester, 5-40 wt.% (based on the polymer) quinonediazide mixt., and an org. solvent and the resin concn. in the varnish is 5-45 wt.%. The electronic device is manufd. by using the varnish by applying on a substrate, prebaking, exposing through a photomask, developing with aq. alkali, and imidating under heating to form a pos. relief pattern. Passivation films, interlayer insulator films, etc., can be formed without etching process.

ACCESSION NUMBER: 1999:490241 CAPLUS
DOCUMENT NUMBER: 131:164292
TITLE: Positively working photosensitive polymer composition, varnish of the composition, and electronic device manufactured by using the varnish
INVENTOR(S): Okabe, Yoshiaki; Maegawa, Yasunari; Mitsuwa, Takao; Ueno, Takumi
PATENT ASSIGNEE(S): Hitachi, Ltd., Japan; Hitachi Chemical Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

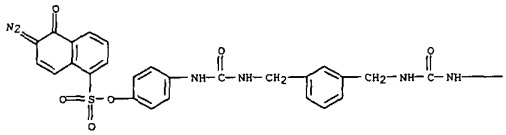
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11212258	A2	19990806	JP 1998-12404	19980126

IT **237403-79-1P**
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manuf. of electronic device including formation of relief pattern by imidation of developed image made of pos. working photosensitive polyamic acid compn.)

L25 ANSWER 10 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 237403-79-1 CAPLUS
CN 1-Naphthalenesulfonic acid, 6-diazo-5,6-dihydro-5-oxo-, 1,3-phenylenebis(methyleneiminocarbonylimino-4,1-phenylene) ester (9CI) (CA INDEX NAME)

PAGE 1-A



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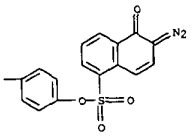
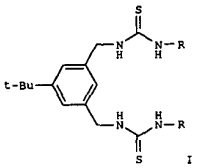


L25 ANSWER 11 OF 79 CAPLUS COPYRIGHT 2001 ACS
GI

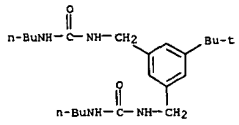


I

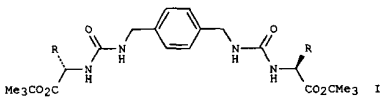
AB Dithiourea I (R = n-Bu) self-assembles to form an orthogonal dimer structure both in soln. and in the solid state, wherein the four thiourea groups establish a closed network of hydrogen bonds through a head-to-tail binding mode. This novel dimer structure was elucidated on the basis of 1H NMR spectra, vapor pressure osmometry, and X-ray crystal structure anal. Furthermore, a series of m-xylylene type dithioureas were synthesized and their dimerization consts. (Ka) in CDCl3 were detd. by diln. expts. using 1H NMR spectroscopy. The magnitude of the Ka values are dependent on the steric bulk of the side chains, the acidity of the thiourea groups, and the weak intermol. interaction between the benzene rings of the side chains and the m-xylylene spacer.

ACCESSION NUMBER: 1998:632414 CAPLUS
DOCUMENT NUMBER: 129:302350
TITLE: Novel Self-Assembly of m-Xylylene Type Dithioureas by Head-to-Tail Hydrogen Bonding
AUTHOR(S): Tobe, Yoshito; Sasaki, Shin-ichi; Mizuno, Masaaki; Hirose, Keiji; Naemura, Koichiro
CORPORATE SOURCE: Department of Chemistry Faculty of Engineering Science, Osaka University, Toyonaka Osaka, 560, Japan
SOURCE: J. Org. Chem. (1998), 63(21), 7481-7489
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **214400-75-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(novel self-assembly of m-xylylene type dithioureas by head-to-tail hydrogen bonding)
RN 214400-75-6 CAPLUS
CN Urea, N,N''-[[5-(1,1-dimethylethyl)-1,3-phenylene]bis(methylene)]bis[N'-butyl- (9CI) (CA INDEX NAME)

L25 ANSWER 11 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)



L25 ANSWER 12 OF 79 CAPLUS COPYRIGHT 2001 ACS
GI

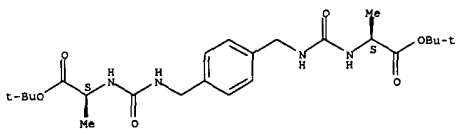


I

AB A family of bis-urea derivs. I (R = CH3, CH2Ph, CHMe2) has been synthesized and shown to function as effective gelators in certain org. solvents. The x-ray structure of bis-urea I (R = CHMe2) shows a cylindrical hydrogen bonding network with extensive interdigitation of the alkyl esters which project from the central rod.

ACCESSION NUMBER: 1998:632348 CAPLUS
DOCUMENT NUMBER: 129:330993
TITLE: The design of organic gelators: solution and solid state properties of a family of bis-ureas
AUTHOR(S): Carr, Andrew J.; Melendez, Rosa; Geib, Steven J.; Hamilton, Andrew D.
CORPORATE SOURCE: Department Chemistry, Yale University, New Haven, CT, 06511, USA
SOURCE: Tetrahedron Lett. (1998), 39(41), 7447-7450
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **215110-17-1P 215110-18-2P 215110-19-3P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn., structural and gelation properties of amino acid-contg. bis-ureas)
RN 215110-17-1 CAPLUS
CN L-Alanine, N,N'-[1,4-phenylenebis(methyleneiminocarbonyl)]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

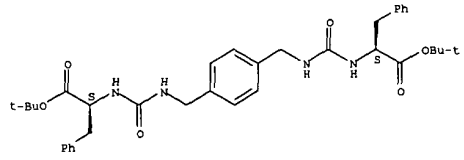
Absolute stereochemistry.



RN 215110-18-2 CAPLUS
CN L-Phenylalanine, N,N'-[1,4-phenylenebis(methyleneiminocarbonyl)]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

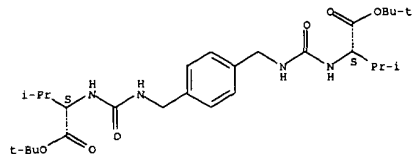
Absolute stereochemistry.

L25 ANSWER 12 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 215110-19-3 CAPLUS
CN L-Valine, N,N'-[1,4-phenylenebis(methyleneiminocarbonyl)]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L25 ANSWER 13 OF 79 CAPLUS COPYRIGHT 2001 ACS

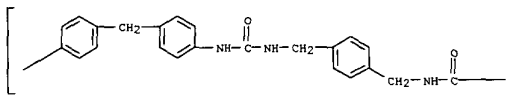
AB A thermally sensitive recording medium comprises a thermally sensitive color developing layer comprising (a) a colorless or pale colored dye precursor, (b) a color developer which can react with the dye precursor to develop a color when heated, and (c) a polyurea compd. comprising units of formula -NHCONHANHCONH- where A is a divalent arom. group.

ACCESSION NUMBER: 1998:608393 CAPLUS
DOCUMENT NUMBER: 129:237711
TITLE: Thermally sensitive recording medium
INVENTOR(S): Nakano, Tomoyuki; Yanai, Koichi; Seki, Junko; Ohashi, Reiji; Yoshioka, Hidetoshi
PATENT ASSIGNEE(S): Nippon Paper Industries Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 39 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 863022	A1	19980909	EP 1998-301670	19980306
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 11115314	A2	19990427	JP 1998-51108	19980303
US 6028030	A	20000222	US 1998-34402	19980304
CA 2231705	AA	19980906	CA 1998-2231705	19980305
PRIORITY APPLN. INFO.:			JP 1997-52133	19970306
			JP 1997-220530	19970815

IT **71210-38-3**
RL: TEM (Technical or engineered material use); USES (Uses)
(heat-sensitive color-developing materials for thermal printing contg.)
RN 71210-38-3 CAPLUS
CN Poly(iminocarbonyliminomethylene-1,4-phenylenemethyleneiminocarbonylimino-1,4-phenylenemethylene-1,4-phenylene) (9CI) (CA INDEX NAME)

PAGE 1-A



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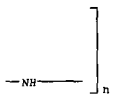

L25 ANSWER 13 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

L25 ANSWER 14 OF 79 CAPLUS COPYRIGHT 2001 ACS

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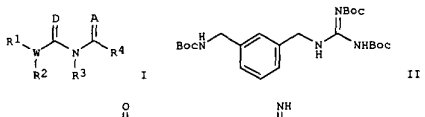
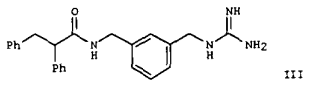
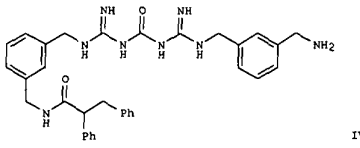


I

II



III



IV

AB Novel neuropeptide Y ligands I [A = O, S, NR; R = C1-8 alkyl; D = O, S, NR7, W = N, CH, CR8; R1, R3 = independently H, (un)substituted, straight or branched, cyclic or acyclic satd. or unsatd. C1-14 alkyl; R2 = Q(X3)-NR5-W2-R6; W2 = CO, SO2, CONH, S(O), bond; Q = (un)substituted (CH2)z, (CH2)m-Q1-(CH2)l, z = 1-12; when z >1, 1 or more CH2 groups may be replaced by O, S, or substituted N; l, m = independently 0-5; Q1 = C3-12 (un)satd. carbocyclic or heterocyclic ring; X3 = H, C1-8 alkyl, aryl, C1-8 alkoxy, OH, CF3, etc.; R4 = NR9R10, NR11-C(:A1)-NR9R10; A1 = O, S, NH, *R12; R12 = H, C1-8 alkyl, aryl; R5-R9, R11, R12 = independently any group* R1, aryl, heteroaryl; R10 = H, straight or branched, cyclic or acyclic, satd. or unsatd. C1-12 alkyl, (un)substituted aryl, aryloxyalkyl, 2- or 3-tetrahydrofurfuryl, (CH2)2-12-OH, amidoalkyl; NR9R10 = 3-10-membered ring], pure or partially sepd. stereoisomers or racemic mixts. thereof, free bases or pharmaceutically acceptable derivs. thereof, are disclosed. Compds. I are agonists and antagonists of neuropeptide Y, and are *therefore useful as regulators of neuropeptide Y activity and in treating* disorders related thereto. Thus, condensation of protected guanidine II (Boc = CO2CMe3) [prepd. from 1,3-bis(aminomethyl)benzene and 1-(N,N'-di-Boc-amidino)pyrazole] and free guanidine III (prepd. from II and 2,3-diphenylpropionylxb56 chloride), followed by deprotection, gave *desired bis(amidino)urea IV. Compd. IV inhibited binding of radiolabeled* neuropeptide Y to cloned cell line receptors with IC50 = 70 nM.

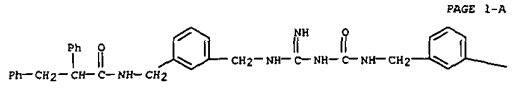
ACCESSION NUMBER: 1998:147199 CAPLUS
DOCUMENT NUMBER: 128:205146
TITLE: Preparation of amidinourea derivatives as neuropeptide Y ligands
INVENTOR(S): Gregor, Vlad Edward; Hong, Yufeng; Ling, Anthony Lai; Tompkins, Eileen Valenzuela
PATENT ASSIGNEE(S): Agouron Acquisition Corp., USA; Gregor, Vlad Edward; Hong, Yufeng; Ling, Anthony Lai; Tompkins, Eileen Valenzuela
SOURCE: PCT Int. Appl., 75 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9807420	A1	19980226	WO 1997-US14854	19970822
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9741592	A1	19980306	AU 1997-41592	19970822
EP 984778	A1	20000315	EP 1997-939524	19970822
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2001502296	T2	20010220	JP 1998-511019	19970822
PRIORITY APPLN. INFO.:			US 1996-25791	P 19960823
			WO 1997-US14854	W 19970822

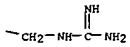
OTHER SOURCE(S): MARPAT 128:205146

IT **204070-54-2P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of amidinourea and bisamidinourea derivs. as neuropeptide Y agonists and antagonists)
RN 204070-54-2 CAPLUS
CN Benzenepropanamide, N-[[3-[[[[[[[3-[[[aminoiminomethyl)amino]methyl]pheny l]methyl]amino]carbonyl]amino]iminomethyl]amino]methyl]phenyl]methyl]-.alpha.-phenyl- (9CI) (CA INDEX NAME)

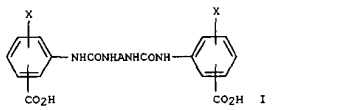
PAGE 1-A

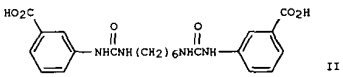


L25 ANSWER 14 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

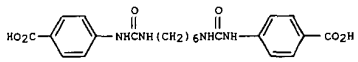


GI





II



III

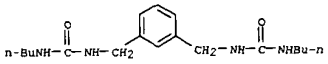
AB The title substances comprise a heat-sensitive layer contg. a colorless or pale colored dye precursor, .gtoreq.1 bisurea compd. I (X = C1-12 alkyl, C1-6 halogenated alkyl, C1-6 alkoxy, nitro, halo, H; A = C.ltoreq.30 divalent group) as a color developer, and an optional light-absorbing agent which absorbs light to convert it to heat. Thermal recording cards, comprising the substances laminated with a plastic film, and electrophotog. transfer sheets using the substances are also claimed. Bisurea compds. II and III are also claimed. A thermal recording paper contg. 3-diethylamino-6-methyl-7-anilinofluoran and (o-HOOCC6H4NHCONH)2(CH2)6 gave high d. images and the backgrounds showed excellent thermal resistance.

ACCESSION NUMBER: 1996:622771 CAPLUS
DOCUMENT NUMBER: 125:261321
TITLE: Bisurea compound and thermal recording substance using it as color developer
INVENTOR(S): Takano, Toshuki; Uehori, Yukiko; Hayasaka, Hideki; Satake, Hisami
PATENT ASSIGNEE(S): Nippon Seishi Kk, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

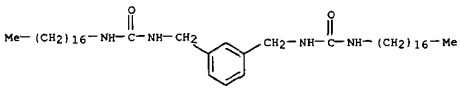
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08197851	A2	19960806	JP 1995-9806	19950125

AB Anion-selective solvent polymeric membrane electrodes based on *H* bond-forming, neutral ionophores with two urea or thiourea groups bridged by a m-xylylene unit are described. The use of .alpha.,.alpha.'-bis(N'-phenylthioureylene)-*m*-xylene results in ion-selective electrodes with a remarkable selectivity for sulfate. An electrode with this compd. as ionophore, poly(vinyl chloride) (PVC) as polymeric matrix, 2-nitrophenyl octyl ether (o-NPOE) as plasticizer and cationic sites (50 mol relative to the ionophore) responds to sulfate in a Nernstian manner in the concn. range from 10-6 to 10-2 M. In comparison to conventional anion-exchanger electrodes, the interference of SCN-, NO3-, Br-, and Cl- is significantly reduced, as shown by the selectivity coeffs. detd. with the matched potential method in the sulfate concn. range 1.0-10 mM (log Kpotsulfate, B: *SCN-, +2.9; NO3-, +1.6; Br-, +1.1; Cl-, -0.1*). *The present electrode* has a higher selectivity for sulfate than any previously reported ionophore-based ion-selective electrode. No significant changes in the detection limit and response slope were obsd. when the electrode was stored for 28 days in an aq. buffer soln.

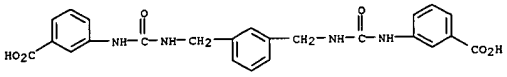
ACCESSION NUMBER: 1998:23594 CAPLUS
DOCUMENT NUMBER: 128:175425
TITLE: Application of a bis-thiourea ionophore for an anion selective electrode with a remarkable sulfate selectivity
AUTHOR(S): Nishizawa, Seiichi; Buhlmann, Philippe; Xiao, Kang Ping; Umezawa, Yoshio
CORPORATE SOURCE: School of Science, Department of Chemistry, The University of Tokyo, 113, Japan
SOURCE: Anal. Chim. Acta (1998), 358(1), 35-44
CODEN: ACACAM; ISSN: 0003-2670
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **36966-14-0 202842-64-6**
RL: ARU (Analytical role, unclassified); DEV (Device component use); ANST (Analytical study); USES (Uses)
(ionophore; application of a bis-thiourea ionophore for an anion selective electrode with a remarkable sulfate selectivity)
RN 36966-14-0 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-butyl- (9CI) (CA INDEX NAME)



RN 202842-64-6 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-heptadecyl- (9CI) (CA INDEX NAME)



L25 ANSWER 16 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)
IT **182172-55-0P**
RL: DEV (Device component use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)
(thermal recording material contg. bisurea compd. as color developer)
RN 182172-55-0 CAPLUS
CN Benzoic acid, 3,3'-[1,3-phenylenebis(methyleneiminocarbonylimino)]bis- (9CI) (CA INDEX NAME)



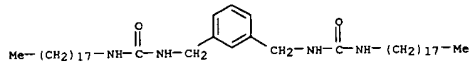
L25 ANSWER 17 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB The compns. with low friction noise contain 10-30 phr R1NHCONHR2(NHCONHR3)n (I; R1-3 = alkyl, aryl; n = 0, 1). Thus, a stabilizer bush prepd. by vulcanizing a compn. of natural rubber 70, butadiene rubber 30, ZnO 5, stearic acid 1, an antioxidant 5, I (R1, R2 = C18H37; n = 0) 30, carbon black 70, a vulcanizing accelerator 1.5, and S 3.0 parts showed low squeeze friction, no friction noise, and high hardness at 80.degree..

ACCESSION NUMBER:	1996:579734 CAPLUS
DOCUMENT NUMBER:	125:198313
TITLE:	Rubber compositions and automobile stabilizer bushes molded thereof
INVENTOR(S):	Utsugi, Hiroyuki; Nomura, Satoshi; Fujii, Noriki
PATENT ASSIGNEE(S):	Kinugawa Rubber Ind, Japan
SOURCE:	Jpn. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF
DOCUMENT TYPE:	Patent
LANGUAGE:	Japanese
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08169984	A2	19960702	JP 1994-314379	19941219

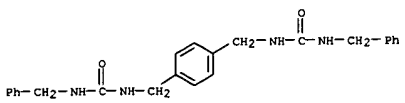
IT **104241-95-4**
RL: DEV (Device component use); MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(urea deriv.-contg. rubbers for automobile stabilizer bushes with reduced noise and high hardness at high temp.)
RN 104241-95-4 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-octadecyl- (9CI) (CA INDEX NAME)



L25 ANSWER 18 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB S,S-Di-Me dithiocarbonate (DMDTC) reacts selectively with primary aliph. amines in methanol to give sym. ureas in high yield. No incorporation of methanol was detected. However, primary aliph. amines bearing hydroxy or amino substituents at the .beta. or .gamma. position cyclize in dil. soln. to provide predominantly cyclic ureas or carbamates. In order to expand the application using DMDTC to the synthesis of unsym. ureas, we examd. the reaction of benzylamine with excess DMDTC (1.6 molar equivalents) which results in the formation of N-benzyl-S-Me thiocarbamate (36) and dibenzylurea (6) in a ratio of 1:30. This result implies that the formation of dibenzylurea (6) at the second stage of the reaction is faster than N-benzyl-S-Me thiocarbamate (36) formation from DMDTC. To prevent the thiocarbamate 36 from further reacting with dibenzylurea, we carried out the reaction under basic conditions, such that 36 is deprotonated immediately after being formed. Since the corresponding N-benzyl-S-Me thiocarbamate N-anion is relatively stable towards nucleophilic substitution at ambient temp. and would not react further to give dibenzylurea (6), quenching of the anion led to thiocarbamate 36 in high yield. Further condensation of 36 with tetrahydrofurfurylamine furnished the unsym. urea PhCH2NHCONHCH2R (R = 2-tetrahydrofuryl). This synthetic strategy is extended to the prepn. of bisureas, a new class of guest-host mols. that has been developed recently for mol. recognition.

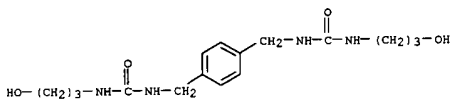
ACCESSION NUMBER:	1996:315723 CAPLUS
DOCUMENT NUMBER:	125:57528
TITLE:	S,S-Dimethyl Dithiocarbonate: A Convenient Reagent for the Synthesis of Symmetrical and Unsymmetrical Ureas
AUTHOR(S):	Leung, Man-kit; Lai, Jun-Liang; Lau, Jing-Hang; Yu, Hsiao-hua; Hsiao, Hsiang-Ju
CORPORATE SOURCE:	Department of Chemistry, National Taiwan University, Taipei, Taiwan
SOURCE:	J. Org. Chem. (1996), 61(12), 4175-4179 CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE:	Journal
LANGUAGE:	English
OTHER SOURCE(S):	CASREACT 125:57528

IT **36966-17-3P 178171-98-7P 178171-99-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of sym. and unsym. ureas by reaction of S,S-di-Me dithiocarbonate and amines)
RN 36966-17-3 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-(phenylmethyl)- (9CI) (CA INDEX NAME)

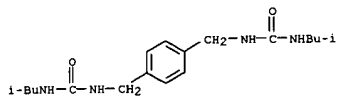


RN 178171-98-7 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-(3-hydroxypropyl)- (9CI) (CA INDEX NAME)

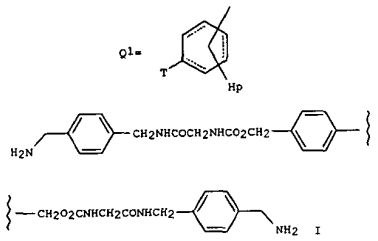
L25 ANSWER 18 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 178171-99-8 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-(2-methylpropyl)- (9CI) (CA INDEX NAME)



L25 ANSWER 19 OF 79 CAPLUS COPYRIGHT 2001 ACS
GI



AB Z(X1)mX2X3X4(X5)nY(X15)oX14X13X12(X11)pZ1 [Y = (substituted) aryl; Z, Z1 = Q1; T = CH2NH2, NHC(:NH)NH2; X1, X11, X5, X15 = (substituted) methylene; X2, X12, X4, X14 = NRCO, NRCONR1, NRCO2, CONR, O2CNR; R, R1 = H, (substituted) alkyl, aryl, aralkyl; X3, X13 = (substituted) cycloalkylene, *cycloheteroalkylene, alkylene; m, n, o, p* = 0, 1; q = 4-10], were prepd. Thus, title compd. (I), prepd. by soln. phase couplings, inhibited tryptase from HMC-1 cells with Ki = 0.56 nM.

ACCESSION NUMBER: 1996:202748 CAPLUS
DOCUMENT NUMBER: 124:260612
TITLE: Preparation of aryl carbamates, -ureas, -guanidines, and related compounds for treating mast-cell mediated conditions.
INVENTOR(S): Lum, Robert T.; Gschwend, Heinz W.; Bauer, Barr E.; Kuo, Elaine; Rice, Ken
PATENT ASSIGNEE(S): Arris Pharmaceutical Corp., USA
SOURCE: PCT Int. Appl., 97 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9532945	A1	19951207	WO 1995-US6926	19950531
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9527644	A1	19951221	AU 1995-27644	19950531

L25 ANSWER 19 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

EP 763016	A1	19970319	EP 1995-922924	19950531
EP 763016	B1	20000126		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

JP 10501238	T2	19980203	JP 1995-501189	19950531

PRIORITY APPLN. INFO.: US 1994-252099 19940601
WO 1995-US6926 19950531
OTHER SOURCE(S): MARPAT 124:260612
IT **174959-00-3P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of aryl carbamates, -ureas, -guanidines, and related compds. for treating *mast-cell mediated conditions*)
RN 174959-00-3 CAPLUS
CN Acetamide, 2,2'-[1,4-phenylenebis(methyleneiminocarbonylimino)]bis[N-[[4-[(aminoiminomethyl)amino]phenyl]methyl]- (9CI) (CA INDEX NAME)

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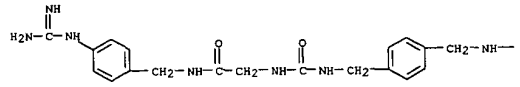

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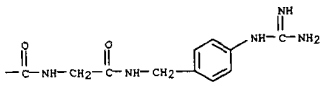
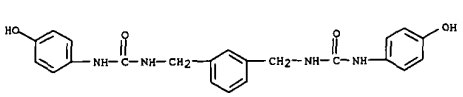


L25 ANSWER 20 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB *The title sheets, with excellent stability of background color, are* coated with mixts. of colorless or light-colored dye precursors and the color developers Z[NHCONHC6H4-n(OH)Xn]2 (X = H, alkyl, haloalkyl, NO2, or halogen; Z = C.1toreq.30 hydrocarbylene; n = 1 or 2). Paper (basis wt. 50 g/m2) was coated with 6.0 g/m2 mixt. of 16% aq. dispersion of N,N''-hexamethylenebis[N'-(2-hydroxyphenyl)urea] 36.0, .apprx.20% aq. dispersion of 7-anilino-3-(diethylamino)-6-methylfluoran 9.2, and 50% aq. kaolin dispersion 12.0 parts and dried to give a recording sheet with background color 0.04, or 0.05, 0.12, and 0.18 after 5 s at 90, 120, and 135.*degree.*, *resp.*

ACCESSION NUMBER: 1996:135704 CAPLUS
DOCUMENT NUMBER: 124:179147
TITLE: Color developers for thermal recording sheets
INVENTOR(S): Takano, Toshiyuki; *Hayasaka, Hideki; Uehori, Yukiko;* Satake, Toshimi
PATENT ASSIGNEE(S): Nippon Paper Industries Co. Ltd., Japan
SOURCE: Ger. Offen., 40 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19522914	A1	19960104	DE 1995-19522914	19950623
JP 08002109	A2	19960109	JP 1994-141310	19940623
GB 2290626	A1	19960103	GB 1995-12768	19950622
GB 2290626	B2	19980422		
US 5656569	A	19970812	US 1995-493465	19950622

PRIORITY APPLN. INFO.: JP 1994-141310 19940623
OTHER SOURCE(S): MARPAT 124:179147
IT **174009-04-2P**
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(*prepn. of, as color developers for thermal recording sheets*)
RN 174009-04-2 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-(4-hydroxyphenyl)- (9CI) (CA INDEX NAME)



L25 ANSWER 21 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB AX(CH2)mB(CH2)pXA [A = sugar alc. residue (deriv.), tris(hydroxymethyl)methyl; .gtoreq.1 of the A OH groups are esterified with HZSO4; jX = NR1CO, NHCONH, NHCSNH, NHSO2, NR1, O; m, p = 0, 1; R1 = H, alkyl, hydroxyalkyl; B = system of conjugated multiple bonds], were *prepd. Thus,* (Z)-3-[3-*biphenyl*-4-*yloxymethyl*-5-[(Z)-3-carboxyacryloylamino]phenylcarbamoyl]acrylic acid in DMF was treated successively with 4-methylmorpholine, 2-chloro-4,6-dimethoxy-1,3,5-triazine, and D-glucamine to give (Z)-butenedioic acid (Z)-[3-biphenyl-4-yloxymethyl-5-(3-D-glucit-1-ylcarbamoylacryloylamino)phenylamide]-D-glucit-1-ylamide, which was converted to (Z)-butenedioic acid (Z)-[3-biphenyl-4-yloxymethyl-5-[3-(2,3,4,5,6-penta-O-sulfo-D-glucit-1-ylcarbamoyl)acryloylamino]phenylamide]-(2,3,4,5,6-penta-O-sulfo-D-glucit-1-yl)amide. The latter had 2.2 times the antiproliferative activity of heparin without showing appreciable *anticoagulative activity.*

ACCESSION NUMBER: 1995:969418 CAPLUS
DOCUMENT NUMBER: 124:202946
TITLE: Preparation of sulfate esters of sugar alcohols for the treatment of *arteriosclerotic changes in the* vascular walls.
INVENTOR(S): Chucholowski, Alexander; Fingerle, Juergen; Iberg, Niggi; Maerki, Hans Peter; Mueller, Rita; Pech, Michael; Rouge, Marianne; Schmid, Gerard; Tschopp, Thomas; Wessel, Hans Peter
PATENT ASSIGNEE(S): F. Hoffmann-La Roche AG, Switz.
SOURCE: Eur. Pat. Appl., 42 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 663391	A1	19950719	EP 1995-100180	19950109
EP 663391	B1	19970409		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

US 5521160	A	19960528	US 1995-368519	19950104
CA 2139720	AA	19950715	CA 1995-2139720	19950106
ZA 9500086	A	19950720	ZA 1995-86	19950106
AU 9510106	A1	19950727	AU 1995-10106	19950109
AU 685196	B2	19980115		
HU 72412	A2	19960429	HU 1995-52	19950109
AT 151416	E	19970415	AT 1995-100180	19950109
ES 2101583	T3	19970701	ES 1995-100180	19950109
IL 112284	A1	19981030	IL 1995-112284	19950109
FI 9500127	A	19950715	FI 1995-127	19950111
CN 1109889	A	19951011	CN 1995-101166	19950111
CN 1043349	B	19990512		
RU 2139854	C1	19991020	RU 1995-100773	19950111
NO 9500137	A	19950717	NO 1995-137	19950113
JP 07206803	A2	19950808	JP 1995-3729	19950113
JP 2862489	B2	19990303		
PL 180273	B1	20010131	PL 1995-306797	19950113
BR 9500096	A	19951031	BR 1995-96	19951013

PRIORITY APPLN. INFO.: CH 1994-114 A 19940114
CH 1994-3315 A 19941107
OTHER SOURCE(S): CASREACT 124:202946; MARPAT 124:202946

L25 ANSWER 21 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

IT **171238-93-0P**

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of sulfate esters of sugar alcs. for the treatment of arteriosclerotic changes in the vascular walls)

RN 171238-93-0 CAPLUS

CN D-Glucitol, 1,1'-[1,3-phenylenebis(methyleneiminocarbonylimino)]bis[1-deoxy-, 2,2',3,3',4,4',5,5',6,6'-decakis(hydrogen sulfate), decasodium salt (9CI) (CA INDEX NAME)

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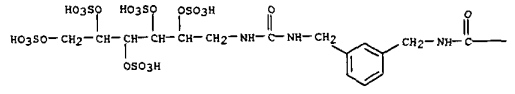

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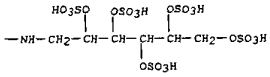

IT **171239-88-6P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)

(prepn. of sulfate esters of sugar alcs. for the treatment of arteriosclerotic changes in the vascular walls)

RN 171239-88-6 CAPLUS

CN D-Glucitol, 1,1'-[1,3-phenylenebis(methyleneiminocarbonylimino)]bis[1-deoxy- (9CI) (CA INDEX NAME)

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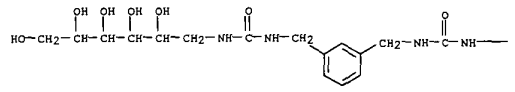

L25 ANSWER 21 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

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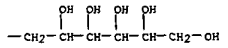
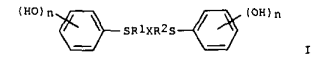
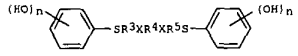


L25 ANSWER 22 OF 79 CAPLUS COPYRIGHT 2001 ACS

GI



I



II

AB The material contains an electron-donating dye precursor and a S-contg. hydroxybenzene deriv. I or II (n = 1-3; R1-5 = hydrocarbyl; total C no. of R1-2 = 16-50; total C no. of R3-5 = 20-70; R4 may contain ether bond or sulfide bond; X = .gtoreq.1 CONH-contg. divalent group) as an electron-attracting compd. The material gives high-contrast and stable images.

ACCESSION NUMBER: 1995:869933 CAPLUS

DOCUMENT NUMBER: 123:325807

TITLE: Reversible thermal recording material for high-contrast images

INVENTOR(S): Iida, Kazuyuki; Maruyama, Atsushi

PATENT ASSIGNEE(S): Mitsubishi Paper Mills Ltd, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07214909	A2	19950815	JP 1994-10312	19940201
JP 3207995	B2	20010910		

IT **170447-69-5**

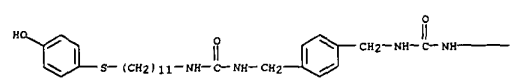
RL: DEV (Device component use); USES (Uses)

(reversible thermal recording material contg. electron-attracting sulfide-contg. hydroxybenzene deriv. for high-contrast images)

RN 170447-69-5 CAPLUS

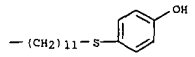
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-[11-[(4-hydroxyphenyl)thio]undecyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



L25 ANSWER 22 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

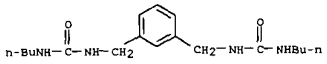
PAGE 1-B



L25 ANSWER 23 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB A bis-urea and a bis-thiourea host, both derived in only one step from 1,3-bis(aminomethyl)benzene, are shown to bind dihydrogen phosphate selectively over various other anions (H2PO4- > CH3COO- > Cl- > HSO4= > NO3- > ClO4-). The much stronger binding of H2PO4- by the bis-thiourea is rationalized by the stronger H-bond donor strength of the thiourea groups and the binding selectivity is explained in terms of the complex geometry and the basicity of the guest anions. The lack of self-assocn. and the changes in the UV spectrum upon complexation make bis-thiourea hosts a promising new class of neutral receptors for dihydrogen phosphate.

ACCESSION NUMBER: 1995:794628 CAPLUS
DOCUMENT NUMBER: 123:313318
TITLE: Anion recognition by urea and thiourea groups: remarkably simple neutral receptors for dihydrogen phosphate
AUTHOR(S): Nishizawa, Seiichi; Buehlmann, Philippe; Iwao, Masatoshi; Umezawa, Yoshio
CORPORATE SOURCE: School Science, University Tokyo, Tokyo, 113, Japan
SOURCE: Tetrahedron Lett. (1995), 36(36), 6483-6
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **36966-14-0P**
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(anion recognition by urea and thiourea groups in simple neutral receptors for dihydrogen phosphate)
RN 36966-14-0 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-butyl- (9CI) (CA INDEX NAME)



L25 ANSWER 24 OF 79 CAPLUS COPYRIGHT 2001 ACS

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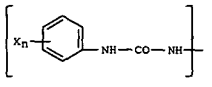


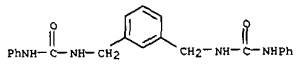
I

AB In a thermal recording sheet having a thermal recording layer contg. a colorless or pale colored dye precursor and a color developer reactive with the dye precursor upon heating to develop a color, a urea compd. is used as the color developer having .gtoreq.2 groups of the formula I [X = alkyl, aralkyl, alkoxy, aryloxy, alkoxycarbonyl, acyl, dialkylamino, arylalkylamino, arylamino, acylamino,nitro, halogen, H; n = n = 1-3]. The thermal recording sheet is superior in ground color stability and is reversible.

ACCESSION NUMBER: 1995:705224 CAPLUS
DOCUMENT NUMBER: 123:97985
TITLE: Thermal recording sheet.
INVENTOR(S): Satake, Toshimi; Takano, Toshiyuki; Hayasaka, Hideki; Uehori, Yukiko; Nagai, Tomoaki
PATENT ASSIGNEE(S): Nippon Paper Industries Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 60 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

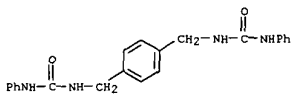
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 633145	A1	19950111	EP 1994-305055	19940708
EP 633145	B1	19980415		
R: DE, FR, GB				
JP 07068945	A2	19950314	JP 1993-311502	19931213
US 5470816	A	19951128	US 1994-267903	19940706
US 5612279	A	19970318	US 1995-456806	19950601

PRIORITY APPLN. INFO.: JP 1993-169244 19930708
JP 1993-311502 19931213
US 1994-267903 19940706
OTHER SOURCE(S): MARPAT 123:97985
IT **36411-65-1 54772-35-9**
RL: DEV (Device component use); USES (Uses)
(thermal leuco dye developer)
RN 36411-65-1 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-phenyl- (9CI) (CA INDEX NAME)



L25 ANSWER 24 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 54772-35-9 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-phenyl- (9CI) (CA INDEX NAME)



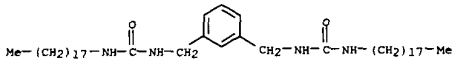
L25 ANSWER 25 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB The compns. having improved mech. properties contain 100 parts polyamides and 0.005-10 parts R1CONH(R3NHCOR4CONH)nR3NHCOR2 (R1, R2 = C5-35 hydrocarbyl substituted by .gtoreq.1 OH group; R3, R4 = C1-12 hydrocarbylene; n = 0-5). Thus, 100 parts nylon 6 and 0.01 part C6H13CH(OH)C10H20CONH(CH2)2NHCOC10H20CH(OH)C6H13 were dry-blended and injection-molded to give moldings with good mold release property.

ACCESSION NUMBER: 1995:650439 CAPLUS
DOCUMENT NUMBER: 123:171481
TITLE: Polyamides containing amides with good mold release property
INVENTOR(S): Karasawa, Hiroo; Umetsu, Hideyuki; Iwamoto, Masaaki
PATENT ASSIGNEE(S): Toray Industries, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07082475	A2	19950328	JP 1993-225628	19930910

OTHER SOURCE(S): MARPAT 123:171481
IT **104241-95-4**
RL: MOA (Modifier or additive use); USES (Uses)
(additives; polyamides contg. amides with good mold release property and mech. properties)
RN 104241-95-4 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-octadecyl- (9CI) (CA INDEX NAME)

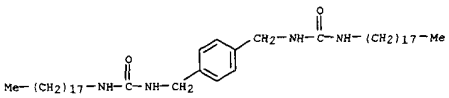


L25 ANSWER 26 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB The title compns. comprise (A) thermoplastic resins, (B) compds. contg. hydroxyaryl phosphate ester groups, and (C) higher fatty acids or their esters and amides, higher aliph. alcs., metal soaps and aliph. hydrocarbons as processing aids provided that the abs. differences .DELTA.S1, .DELTA.S2 and .DELTA.S3 in soly. parameters (SP values; [cal/cm3]0.5) of A and B, B and C and C and A are 1.0.ltoreq..DELTA.S1.ltoreq.2.0, 0.ltoreq..DELTA.S2.ltoreq.2.5, and 0.5.ltoreq..DELTA.S3.ltoreq.4.5, resp. A molding compn. comprised (A) 100 parts a 71:29 mixt. of high-impact polystyrene and a polyoxyphenylene-polystyrene 70/30 blend, (B) 12 parts a 54.2/18.3/27.5 mixt. of di-Ph resorcinyl phosphate (I), Ph3PO4 (II) and Z(OPO3Ph)2 (Z = 1,3-phenylene) (III), and (C) 2.4 parts ethylenebis(12-hydroxy)stearamide (IV) where the SP values of A component, I, II, III, and IV were 10.0, 11.8, 10.7, 10.8 and 10.9, resp.

ACCESSION NUMBER: 1995:480214 CAPLUS
DOCUMENT NUMBER: 122:241421
TITLE: Thermoplastic compositions with good moldability and resistance to heat and impact
INVENTOR(S): Nishihara, Hajime; Maeda, Katsuaki
PATENT ASSIGNEE(S): Asahi Chemical Ind, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06220332	A2	19940809	JP 1993-13227	19930129

IT **65792-44-1**, Hackreen SX
RL: MOA (Modifier or additive use); USES (Uses)
(thermoplastic compns. with good moldability and resistance to heat and impact)
RN 65792-44-1 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-octadecyl- (9CI) (CA INDEX NAME)

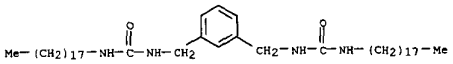


L25 ANSWER 27 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB Polyamides contg. 0.001-10% bisurea R2NHCONHR1NHCONHR3 (R1 = divalent hydrocarbyl; R2-3 = C9-40 aliph. hydrocarbyl) and 0.005-5% Ba stearate (I) have good melt flow and mold release properties and give moldings with good appearance, stiffness, and strength. Nylon 6 contg. 0.3% [Me(CH2)17NHCONH-p-C6H4]2CH2 and 0.4% I gave injection moldings showing tensile strength 920 kg/cm2, elongation 200%, flexural modulus 31,000 kg/cm2, and good dimensional stability.

ACCESSION NUMBER: 1994:535559 CAPLUS
DOCUMENT NUMBER: 121:135559
TITLE: Polyamide compositions containing bisureas for moldings
INVENTOR(S): Nishimura, Tooru; Karasawa, Hiroo; Iwamoto, Masaaki
PATENT ASSIGNEE(S): Toray Industries, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05320501	A2	19931203	JP 1992-124854	19920518

IT **104241-95-4**
RL: USES (Uses)
(polyamides contg., for injection molding with short cycle time)
RN 104241-95-4 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-octadecyl- (9CI) (CA INDEX NAME)



L25 ANSWER 28 OF 79 CAPLUS COPYRIGHT 2001 ACS
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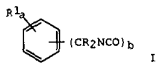


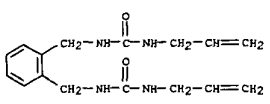
I

AB Lenses with high refractive index are manufd. by treating .gtoreq.1 polyisocyanates I (R = H, Me; R1 = H, Cl, Br, Me, Et; a = 1-4; b = 2-4) with .gtoreq.1 H2C:CHCH2R2 (R2 = phenol group, OH, amino) and cast molding the resulting products. Thus, heating 30 parts diisocyanato-o-xylene with 18.5 parts allyl alc. for 3 h gave a product, which was mixed with dicumyl peroxide, cast in a mold, and left at 90-150.degree. for 5-8 h to give a lens showing refractive index 1.602 at 20.degree., 580-nm light transmittance 90%, sp. gr. 1.24, hardness 4H, and satd. H2O absorption 0.20%, and good heat, impact, and solvent resistance.

ACCESSION NUMBER: 1994:300689 CAPLUS
DOCUMENT NUMBER: 120:300689
TITLE: Manufacture of plastic lenses by cast molding
INVENTOR(S): Chen, Chii Chian; Rii, Ron Choo
PATENT ASSIGNEE(S): Industrial Technology Research Institute, Taiwan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05269757	A2	19931019	JP 1992-17587	19920203
JP 06061768	B4	19940817		

IT **154119-30-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 154119-30-9 CAPLUS
CN Urea, N,N''-[1,2-phenylenebis(methylene)]bis[N'-2-propenyl- (9CI) (CA INDEX NAME)

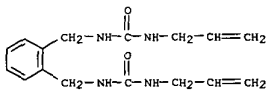


IT **154119-33-2P 154119-34-3P**
RL: PREP (Preparation)
(prepn. of, for manuf. of transparent, heat- and impact- and solvent-resistant lenses)

L25 ANSWER 28 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)
RN 154119-33-2 CAPLUS
CN Urea, N,N''-[1,2-phenylenebis(methylene)]bis[N'-2-propenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

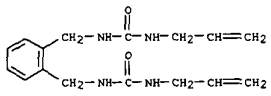
CRN 154119-30-9
CMF C16 H22 N4 O2



RN 154119-34-3 CAPLUS
CN Urea, N,N''-[1,2-phenylenebis(methylene)]bis[N'-2-propenyl-, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 154119-30-9
CMF C16 H22 N4 O2



CM 2

CRN 100-42-5
CMF C8 H8

L25 ANSWER 29 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB The title material comprises a thermal color image-forming layer contg. a colorless dye precursor, a developer, a binder, and an additive where the developer is (RSO2NHC(:X)NH)nA and the additive is .gtoreq.1 compd. selected from (1) R1SO2NHC(:Y)R2, R3SO2NHC(:Z)OR4, and R5SO2NHC(:E)NR6R7 [X, Y, Z, E, Q = O, S; R = arom. hydrocarbon group; A = multivalent group; n .gtoreq.2; R2 = alkyl, aralkyl, arom. hydrocarbon group; R4 = alkyl, aralkyl, benzene ring, polynuclear arom. group; R1, R3, R5 = unsubstituted arom. group or substituted benzene ring; R6, R7 = H, alkyl, aralkyl, arom. group], (2) arom. epoxy compds., (3) arom. aziridine compds., (4) arom. sulfonyl compds. different from above and having m.p. 60-160.degree., and (5) basic white pigments. The material provides clear color images having high resistance to oily substances, plasticizers, moisture, and heat and is excellent in storage stability.

ACCESSION NUMBER: 1994:204701 CAPLUS
DOCUMENT NUMBER: 120:204701
TITLE: Thermosensitive recording material
INVENTOR(S): Takahasi, Yoshiyuki; Nishioka, Makoto; Toyofuku, Kunitaka; Uchida, Kyoko
PATENT ASSIGNEE(S): Oji Paper Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 37 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

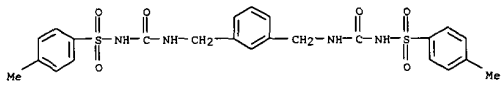
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 542556	A1	19930519	EP 1992-310355	19921112
EP 542556	B1	19950719		
R: DE, FR, GB				
JP 05131752	A2	19930528	JP 1991-300491	19911115
JP 05169836	A2	19930709	JP 1991-342814	19911225
JP 05169834	A2	19930709	JP 1991-342837	19911225
JP 05330239	A2	19931214	JP 1992-135117	19920527
US 5314859	A	19940524	US 1992-976515	19921113

PRIORITY APPLN. INFO.: JP 1991-300491 19911115
JP 1991-342814 19911225
JP 1991-342837 19911225
JP 1992-135117 19920527

OTHER SOURCE(S): MARPAT 120:204701

IT **151882-84-7**
RL: USES (Uses)
(color thermosensitive recording materials contg.)

RN 151882-84-7 CAPLUS
CN Benzenesulfonamide, N,N'-[1,3-phenylenebis(methyleneiminocarbonyl)]bis[4-methyl- (9CI) (CA INDEX NAME)



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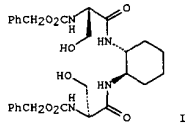
GI



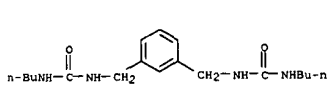
I

AB A new family of receptors for carboxylates has been developed based on the multidentate recognition strategy of ristocetin. Particularly strong binding is seen with receptors that employ hydroxyl binding sites. Thus, L-serine-contg. multidentate receptor I has a binding const. Ka = 2.7 .times. 105 with Bu4NOAc in CD3CN.

ACCESSION NUMBER: 1994:164869 CAPLUS
DOCUMENT NUMBER: 120:164869
TITLE: Synthetic analogs of the ristocetin binding site: neutral, multidentate receptors for carboxylate recognition
AUTHOR(S): Albert, Jeffrey S.; Hamilton, Andrew D.
CORPORATE SOURCE: Dep. Chem., Univ. Pittsburgh, Pittsburgh, PA, 15260, USA
SOURCE: Tetrahedron Lett. (1993), 34(46), 7363-6
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **36966-14-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and binding with tetrabutylammonium acetate, as synthetic ristocetin binding pocket analog)

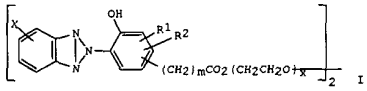
RN 36966-14-0 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-butyl- (9CI) (CA INDEX NAME)



L25 ANSWER 29 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

L25 ANSWER 31 OF 79 CAPLUS COPYRIGHT 2001 ACS

GI



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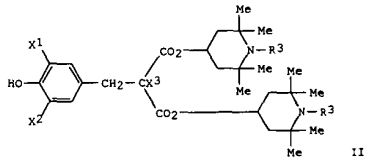


II

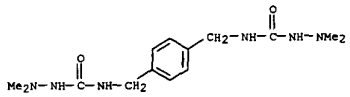
AB In the title process, fibers are dyed in a bath contg. .ltoreq.10% (on fiber) I (X = H, halo; R1, R2 = H, C1-6 alkyl, alkoxy; m = 1-4; n = 1-30), II (X1, X2, X3 = C1-4 alkyl; R3 = H, Me), and Y(NHCONHNR42)2 (Y = C1-10 alkylene, CH2C6H4CH2; R4 = C1-5 alkyl or alkoxy). Thus, a polyester knit was dyed in a bath contg. Samaron Yellow A-G 0.15, Samaron Blue A-G 0.15 Samaron Red A-B 0.15, I (X, R1 = H; R2 = tert-Bu; m = 2; n = 10) 0.2, II (X1, X2 = Me; X3 = tert-Bu; R3 = Me) 0.2, and Me2NHNCONH(CH2)6NHCONHNMe2 (III) 0.2% (on fiber) for 90 min at 130.degree. to give a colored knit with tensile strength retention 96.8% after 200 h in a carbon arc fadeometer at 83 .+-. 2.degree. and color fading rating (Gray scale) 5, vs. 92.1 and 3-4, resp., for a fabric dyed without II and III.

ACCESSION NUMBER: 1994:136996 CAPLUS
Correction of: 1993:104728
DOCUMENT NUMBER: 120:136996
Correction of: 118:104728
TITLE: Process and agents for improvement of resistance of fibers to light and heat
INVENTOR(S): Takekoshi, Shoji; Tokitaka, Masumi
PATENT ASSIGNEE(S): Meisei Chemical Works, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

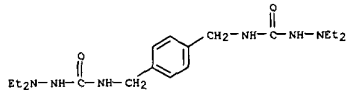
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04202851	A2	19920723	JP 1990-339807	19901129

IT **109862-42-2 145198-18-1**
RL: MOA (Modifier or additive use); USES (Uses)
(heat stabilizers, with piperazine compds., for polyester fibers or

L25 ANSWER 31 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)
wool)
RN 109862-42-2 CAPLUS
CN Hydrazinecarboxamide, N,N'-[1,4-phenylenebis(methylene)]bis[2,2-dimethyl- (9CI) (CA INDEX NAME)



RN 145198-18-1 CAPLUS
CN Hydrazinecarboxamide, N,N'-[1,4-phenylenebis(methylene)]bis[2,2-diethyl- (9CI) (CA INDEX NAME)



L25 ANSWER 32 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

CRN 100-42-5
CMF C8 H8

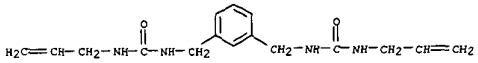
L25 ANSWER 32 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB The title adducts are prepd. from an arom. polyisocyanate such as *m-xylylene diisocyanate (I) and an allyl compd. such as allyl alc.*, allylphenol (II), or allylamine and polymd. to give lenses contg. no gas bubbles and having good mold release properties.5-0.50. A mixt. of 40 parts styrene, 3 parts peroxide, and 60 parts adduct prepd. from 30 parts I and 42.7 parts II was cured 5 h at 120.degree. in a mold to give a lens having nD 1.611.
ACCESSION NUMBER: 1994:56249 CAPLUS
DOCUMENT NUMBER: 120:56249
TITLE: High-refractivity plastic lenses from allyl compound-polyisocyanate adducts
INVENTOR(S): Chen, Chih Chiang; Lee, Rong Jer
PATENT ASSIGNEE(S): Industrial Technology Research Institute, Taiwan
SOURCE: U.S., 4 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5235014	A	19930810	US 1992-875346	19920429

IT **152275-53-1 152275-54-2**
RL: USES (Uses)
(*lens, prepn. of molded, with high refractive index*)
RN 152275-53-1 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-2-propenyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

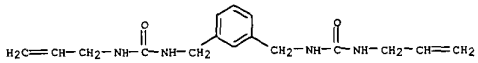
CRN 152275-52-0
CMF C16 H22 N4 O2



RN 152275-54-2 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-2-propenyl-, polymer with *ethenylbenzene (9CI)* (CA INDEX NAME)

CM 1

CRN 152275-52-0
CMF C16 H22 N4 O2

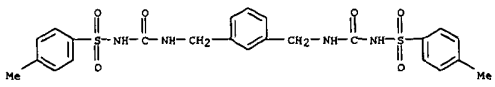


CM 2

L25 ANSWER 33 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB A thermosensitive recording material for forming colored images showing excellent storage stability and good resistance to oils, plasticizers, moisture, and heat comprises a thermosensitive layer contg. a dye precursor, a binder, and a color developer comprising a compd. represented by the formula (RSO2NHCXNH)nA (X = O or S; R = an arom. group which may be *substituted by a halogen atom or a lower alkyl group; A = a multivalent;* n = an integer of .gtoreq.2).
ACCESSION NUMBER: 1994:19333 CAPLUS
DOCUMENT NUMBER: 120:19333
TITLE: Thermosensitive recording material
INVENTOR(S): Takahashi, Yoshiyuki; Iwasaki, Akiko; Toyofuku, Kunitaka
PATENT ASSIGNEE(S): Oji Paper Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 19 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: *English*
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 535887	A1	19930407	EP 1992-308805	19920928
EP 535887	B1	19950719		
R: DE, FR, GB				
JP 05147357	A2	19930615	JP 1992-111286	19920430
JP 05148220	A2	19930615	JP 1992-112838	19920501
US 5256618	A	19931026	US 1992-955193	19921002

PRIORITY APPLN. INFO.: JP 1991-257864 19911004
JP 1992-111286 19920430
JP 1992-112838 19920501
OTHER SOURCE(S): MARPAT 120:19333
IT **151882-84-7**
RL: *USES (Uses)*
(color developer, for thermosensitive recording materials)
RN 151882-84-7 CAPLUS
CN Benzenesulfonamide, N,N'-[1,3-phenylenebis(methyleneiminocarbonyl)]bis[4-methyl- (9CI) (CA INDEX NAME)



L25 ANSWER 34 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB The title polymers are prepd. by using diamines (H2NR1NHCONH)2R2 (R1-2 = C2-8 alkylene, C6-15 cycloalkylene, phenylene, etc.) as chain extenders. A polyurea-polyurethane prepd. by reacting 80.8 parts MDI in turn with 400 parts OH-terminated THF-neopentyl glycol adduct (no.-av. mol. wt. 1780) and 26.5 parts (H2NCH2CH2NHCONH-p-C6H4)2CH2 (I) was used to prep. fibers which broke after heating at 180.degree. and 50% elongation for 1600 s, vs. 200 for polymers prepd. with H2NCH2CH2NH2 instead of I.

ACCESSION NUMBER: 1993:497887 CAPLUS
DOCUMENT NUMBER: 119:97887
TITLE: Preparation of ureylene group-containing diamines and heat-resistant polyurea-polyurethanes
INVENTOR(S): Yosizato, Akihiko; Furubeppu, Satoshi
PATENT ASSIGNEE(S): Asahi Kasei Kogyo K. K., Japan
SOURCE: PCT Int. Appl., 123 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9218468	A1	19921029	WO 1992-JP458	19920410
W: CA, KR, US				
RW: DE, FR, GB, IT, NL				
EP 533954	A1	19930331	EP 1992-908398	19920410
EP 533954	B1	19980506		
R: DE, FR, GB, IT, NL				
JP 05155841	A2	19930622	JP 1992-116692	19920410
US 5414118	A	19950509	US 1993-176503	19931230
US 5576410	A	19961119	US 1995-378387	19950125

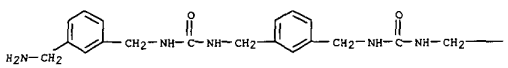
PRIORITY APPLN. INFO.:
JP 1991-106496 19910412
JP 1991-204540 19910722
JP 1991-260784 19911008
WO 1992-JP458 19920410
US 1992-956014 19921209
US 1993-176503 19931230

OTHER SOURCE(S): MARPAT 119:97887

IT **149416-21-7P 149438-13-1P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of, as chain extender for heat-resistant polyurea-polyurethanes)

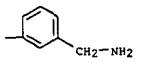
RN 149416-21-7 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-[[3-(aminomethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

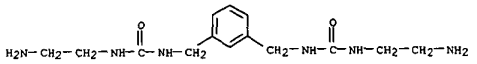


L25 ANSWER 34 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

PAGE 1-B

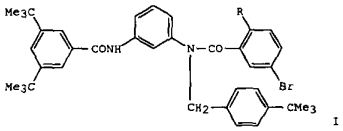


RN 149438-13-1 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-(2-aminoethyl)- (9CI) (CA INDEX NAME)

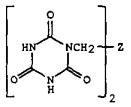


L25 ANSWER 35 OF 79 CAPLUS COPYRIGHT 2001 ACS

GI



I



II

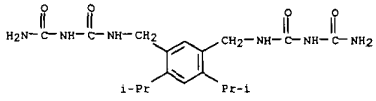
AB Trivalent melamine derivs. I [R = 4-amino-6-(neohexylamino)-1,3,5-triazin-2-ylamino] (hubM3) and Me3CO2CNHC[CH2O(CH2)3SCH2COR]3 (trisM3)] react with the bivalent isocyanurate derivs. II [Z = 4,6-diisopropyl-1,3-benzenediyl (benzCA2) or 3,4-diisopropyl-2,5-furandiyl (furanCA2)] in CHCl3 to afford a series of supramol. aggregates contg. 2 equiv of the tris melamine and 3 equiv of the bis cyanurate (2 + 3 complexes). The syntheses of trisM3, benzCA2, and furanCA2 are described. These complexes consist of two parallel hydrogen-bonded lattices that incorporate 36 hydrogen bonds. The structures have been characterized by 1H NMR, 13C NMR, and UV spectroscopies, gel permeation chromatog., and vapor pressure osmometry. These techniques demonstrate that the 2 + 3 aggregates in CHCl3 soln. are stable and structurally well-defined. HubM3 is more rigid than trisM3. This difference in rigidity is used to probe the relationship between the mol. structure of the trivalent melamine deriv. and the geometry and stability of the resulting aggregate. (HubM3)2(benzCA2)3 and (hubM3)2(furanCA2)3 each seem to exist in one isomeric form; (trisM3)2(benzCA2)3 and (trisM3)2(furanCA2)3 are both mixts. of isomers (due, probably, to the relative flexibility of the arms of trisM3).

ACCESSION NUMBER: 1993:169071 CAPLUS
DOCUMENT NUMBER: 118:169071
TITLE: Molecular self-assembly through hydrogen bonding: aggregation of five molecules to form a discrete supramolecular structure
AUTHOR(S): Seto, Christopher T.; Mathias, John P.; Whitesides, George M.
CORPORATE SOURCE: Dep. Chem., Harvard Univ., Cambridge, MA, 02138, USA
SOURCE: J. Am. Chem. Soc. (1993), 115(4), 1321-9
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English

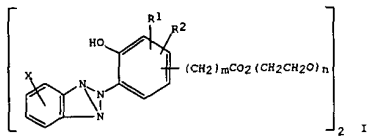
L25 ANSWER 35 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

IT **146651-67-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and cyclocondensation of, with carbonate)

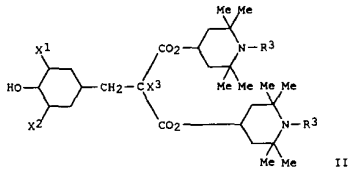
RN 146651-67-4 CAPLUS
CN Imidodicarbonic diamide, N,N''-[[4,6-bis(1-methylethyl)-1,3-phenylene]bis(methylene)]bis- (9CI) (CA INDEX NAME)



L25 ANSWER 36 OF 79 CAPLUS COPYRIGHT 2001 ACS
GI



I



II

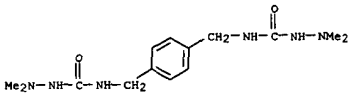
AB In the title process, fibers are dyed in a bath contg. .ltoreq.10% (on fiber) I (X = H, halo; R1, R2 = H, C1-6 alkyl, alkoxy; m = 1-4; n = 1-30), II (X1, X2, X3 = C1-4 alkyl; R3 = H, Me), and Y(NHCONHNR42)2 (Y = C1-10 alkylene, CH2C6H4CH2; R4 = c1-5 alkyl or alkoxy). Thus, a polyester knit was dyed in a bath contg. Samaron yellow A-G 0.15, Samaron blue A-G 0.15, Samaron Red A-B 0.15, I (X = H; R1 = H; R2 = tert-Bu; m = 2; n = 10) 0.2, II (X1 = X2 = Me; X3 = tert-Bu; R3 = Me) 0.2, and *Me2NHNCONH(CH2)6NHCONHNMe2 (III) 0.2%% (on fiber) for 90 min* at 130.degree. to give a colored knit with tensile strength retention 96.8% after 200 h in a carbon arc fadeometer at 83 .+-. 2.degree. and color fading rating (Grey scale) 5, vs. 92.1 and 3-4, resp., for a fabric dyed without II and III.

ACCESSION NUMBER: 1993:104728 CAPLUS
DOCUMENT NUMBER: 118:104728
TITLE: Process and agents for improvement of resistance of fibers to light and heat
INVENTOR(S): Takekoshi, Shoji; Tokitaka, Masumi
PATENT ASSIGNEE(S): Meisei Chemical Works, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
PATENT INFORMATION:

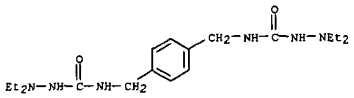
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04202851 A2		19920723	JP 1990-339807	19901129

OTHER SOURCE(S): MARPAT 118:104728

L25 ANSWER 36 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)
IT **109862-42-2 145198-18-1**
RL: MOA (Modifier or additive use); USES (Uses)
(heat stabilizers, with piperazine compds., for polyester fibers or wool)
RN 109862-42-2 CAPLUS
CN Hydrazinecarboxamide, N,N'-[1,4-phenylenebis(methylene)]bis[2,2-dimethyl- (9CI) (CA INDEX NAME)

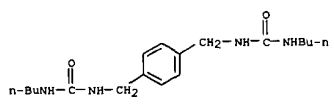


RN 145198-18-1 CAPLUS
CN Hydrazinecarboxamide, N,N'-[1,4-phenylenebis(methylene)]bis[2,2-diethyl- (9CI) (CA INDEX NAME)



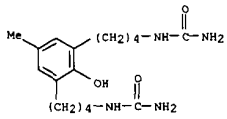
L25 ANSWER 37 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB *Simple synthetic receptors have been developed that function via directed* hydrogen bonding interactions in highly competitive solvents. For example, a mol. contg. two urea sites sepd. by a p-xylylene spacer binds to glutarate derivs. in DMSO via four hydrogen bonds and with an assocn. const. of 6.4 .+-. 0.4 .times. 102 M-1. Strong binding of this type in polar solvents may be due to a no. of factors including favorable secondary hydrogen bonding interactions between the carboxylate and urea, the use of charged H-bond acceptors, an inefficient solvation of the closely spaced H-bond donor sites in the urea, and an entropically favorable release of solvent and/or counterion mols. on complex formation.
An enhancement of these factors can be achieved in a receptor contg. two alkylguanidinium groups in place of the ureas. This binds very strongly to *glutarate even in aq. DMSO. The assocn. const.* was >5 .times. 104 M-1 in neat DMSO, 8.5 .+-. 1.5 .times. 103 M-1 in 12% aq. DMSO and 4.8 .+-. 2.5 .times. 102 M-1 in 25% aq. DMSO.

ACCESSION NUMBER: 1993:80425 CAPLUS
DOCUMENT NUMBER: 118:80425
TITLE: Molecular recognition: hydrogen-bonding receptors that function in highly competitive solvents
AUTHOR(S): Fan, Erkang; Van Arman, Scott A.; Kincaid, Scott; Hamilton, Andrew D.
CORPORATE SOURCE: Mater. Res. Cent., Univ. Pittsburgh, Pittsburgh, PA, 15260, USA
SOURCE: J. Am. Chem. Soc. (1993), 115(1), 369-70
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **145509-78-0**
RL: PRP (Properties)
(hydrogen bonding of, with glutarate)
RN 145509-78-0 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-butyl- (9CI) (CA INDEX NAME)



L25 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB Esters, alcs., carboxylic acids, aldehydes, ketones, and terpenes (111 total) were identified in the aroma of R. roxburghii hips by gas chromatog.-mass spectrometry. The major components were phytyl formate, cyclohexyl acetate, linalool, and palmitic acid.

ACCESSION NUMBER: 1993:79735 CAPLUS
DOCUMENT NUMBER: 118:79735
TITLE: Study of the volatile aroma compounds of Rosa roxburghii Tratt fruits
AUTHOR(S): Liang, Lianli; Han, Lin; Chen, Xue; Shi, Luhuai
CORPORATE SOURCE: Guizhou Prov. Inst. Light Ind. Sci., Guiyang, 550002, *Peop. Rep. China*
SOURCE: Huaxue Tongbao (1992), (5), 34-6, 39
CODEN: HHTPAU; ISSN: 0441-3776
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
IT **145613-71-4**
RL: BIOL (Biological study)
(of Rosa roxburghii fruit aroma)
RN 145613-71-4 CAPLUS
CN Urea, N,N''-[(2-hydroxy-5-methyl-1,3-phenylene)di-4,1-butanediyl]bis- (9CI) (CA INDEX NAME)



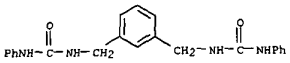
L25 ANSWER 39 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB The oil-nondiffusible thermal compds. contain thermal-conductive powders and .gtoreq.0.5% urea compds. having m.p. .ltoreq.250.degree.. They are used on, e.g., sliding parts, switches, contact points. The sepn. or diffusion of base oils (e.g., mineral oils) in the thermal compds. is minimized.

ACCESSION NUMBER: 1992:615492 CAPLUS
DOCUMENT NUMBER: 117:215492
TITLE: Oil-nondiffusible thermal compounds for contact points
INVENTOR(S): Uematsu, Toyohito; Komatsuzaki, Shigeki
PATENT ASSIGNEE(S): Hitachi, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

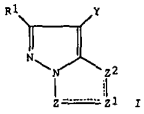
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04117482	A2	19920417	JP 1990-235519	19900907

IT **36411-65-1**
RL: USES (Uses)
(thermal compds. contg., oil-nondiffusible, for contacting points)
RN 36411-65-1 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-phenyl- (9CI) (CA INDEX NAME)



L25 ANSWER 40 OF 79 CAPLUS COPYRIGHT 2001 ACS

GI



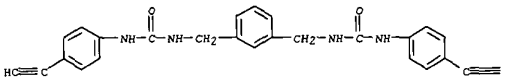
AB A Ag halide color photog. material has a layer contg. the coupler [I; R1 = H, substituent; Z-Z2 = (un)substituted CH, N, NH; one of Z-Z1, Z1-Z2 bond is a double bond and the other is single bond; when Z1-Z2 bond is C-C double bond, it may be a part of an arom. ring] and R2C.tplbond.CH [R2 = (cyclo)alkyl, alkenyl, alkynyl, aralkyl, aryl, heterocyclyl, alkoxycarbonyl, (un)substituted CONH2]. This color photog. material provides good color image with excellent color reprodn. and with little dependence on fluctuation of processing conditions in continuous rapid processing.

ACCESSION NUMBER: 1992:162420 CAPLUS
DOCUMENT NUMBER: 116:162420
TITLE: Silver halide color photographic material containing pyrazoloazole magenta coupler
INVENTOR(S): Naruse, Hideaki; Tsukahara, Jiro
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 36 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03172840	A2	19910726	JP 1989-312437	19891201
JP 2627201	B2	19970702		

IT **139957-89-4**
RL: USES (Uses)
(color photog. paper contg. pyrazoloazole magenta coupler and)
RN 139957-89-4 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-(4-ethynylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



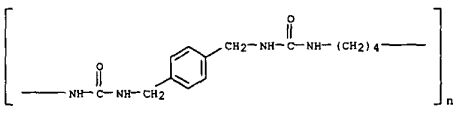
L25 ANSWER 40 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

PAGE 1-B

L25 ANSWER 41 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB The prepn. of various polyamides, polyureas and, polyurethanes in presence of diphenylphosphoryl azide (I) reagent was investigated. Various polyamides were obtained very conveniently by polymn. of aminocarboxylic acids or copolymn. of dicarboxylic acids and diamines. Polyureas were mainly obtained by conversion of dicarboxylic acids to acyl azides with I and then to isocyanates, followed by copolymn. of these diisocyanates with diamines. Further, the polymn. of some aminocarboxylic acids that had an amino group of low nucleophilicity (such as p-aminobenzoic acid) gave polyureas instead of polyamides by direct polymn. Polyurethanes were also obtained from dicarboxylic acids and diols through the Curtius rearrangement of acyl azides, similarly as in the polyurea prepns. The products were identified with the help of IR spectra and elemental analyses, and their mol. wts. were evaluated viscometrically.

ACCESSION NUMBER: 1991:537305 CAPLUS
DOCUMENT NUMBER: 115:137305
TITLE: Polymerization reaction with diphenylphosphoryl azide. Preparation of polyamides, polyureas and polyurethanes
AUTHOR(S): Nishi, Norio; Tsunemi, Masahiko; Nakamura, Kunio; Tokura, Seiichi
CORPORATE SOURCE: Fac. Sci., Hokkaido Univ., Sapporo, 060, Japan
SOURCE: Makromol. Chem. (1991), 192(8), 1811-20
CODEN: MACEAK; ISSN: 0025-116X
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **136290-94-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, in presence of diphenylphosphoryl azide polymn. reagent)
RN 136290-94-3 CAPLUS
CN Poly(iminocarbonyliminomethylene-1,4-phenylenemethyleneiminocarbonylimino-1,4-butanediyl) (9CI) (CA INDEX NAME)



L25 ANSWER 42 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB In a plastic-magnet compn. contg. Nylon, a magnetic powder, and a lubricating agent, the lubricating agent comprises (RNHCONH)2X (R = C12-18 alkyl; X = divalent org. group). Specifically, the magnetic powder may comprise a Nd-Fe-B alloy.

ACCESSION NUMBER: 1991:73874 CAPLUS
DOCUMENT NUMBER: 114:73874
TITLE: Composition for plastic magnet
INVENTOR(S): Yokokita, Masahiko; Kitagawa, Takeshi
PATENT ASSIGNEE(S): Ube Nitto Kasei Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

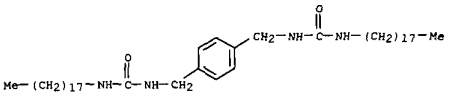
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02211604	A2	19900822	JP 1989-33079	19890213

OTHER SOURCE(S): MARPAT 114:73874

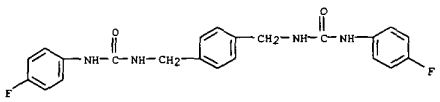
IT **65792-44-1**, Hakurin SX
RL: PRP (Properties)
(lubricating agent, in manufg. of plastic magnets)

RN 65792-44-1 CAPLUS

CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-octadecyl- (9CI) (CA INDEX NAME)

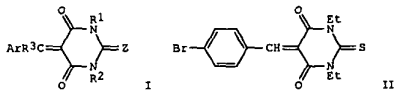


L25 ANSWER 43 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)



L25 ANSWER 43 OF 79 CAPLUS COPYRIGHT 2001 ACS

GI



AB The title precursor, which has a high photosensitivity, a high resistance to aging, excellent washing-out characteristics, and a low tendency to fleck formation, consists of an elec. conductive support and a photoconductive layer contg. a binder resin, a phthalocyanine pigment, and a compd. of the structure I, R4R5NC(Z)NR6R7 or R4R5C(Z)NR8R10NR9C(Z)NR6R7 (R1, R2 = alkyl, aryl, or aralkyl; R3 = H, alkyl, aryl, aralkyl, or together with Ar can form a ring; R4-R9 = H, alkyl, aryl, heterocyclyl, or R4 and R5 or R6 and R7 can form a ring; R10 = arylene, aralkylene or polymethylene; Ar = a monovalent arom. or heterocyclic group; Z = O or S) as a sensitizer. Thus, a roughened Al plate was coated with a compn. contg. Cu phthalocyanine (Liophoton ERPC), II, benzyl methacrylate-methacrylic acid copolymer, THF, and cyclohexanone, dried, corona charged, developed, etched, and then used in an offset press to 50,000 very sharp prints without staining.

ACCESSION NUMBER: 1991:72280 CAPLUS
DOCUMENT NUMBER: 114:72280
TITLE: Electrophotographic printing plate precursor
INVENTOR(S): Yokoya, Hiroaki; Tachikawa, Hiromichi; Watarai, Syu
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Ger. Offen., 26 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3941542	A1	19900628	DE 1989-3941542	19891215
DE 3941542	C2	19981224		
JP 02161448	A2	19900621	JP 1988-317318	19881215
JP 2514840	B2	19960710		
JP 02188758	A2	19900724	JP 1989-9501	19890118
JP 2571430	B2	19970116		
US 5063129	A	19911105	US 1989-449161	19891213
PRIORITY APPLN. INFO.:			JP 1988-317318	19881215
			JP 1989-9501	19890118

OTHER SOURCE(S): MARPAT 114:72280

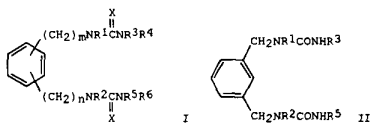
IT **131737-83-2**
RL: USES (Uses)
(spectral sensitizer, in electrophotog. printing plate precursor)

RN 131737-83-2 CAPLUS

CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-(4-fluorophenyl)- (9CI) (CA INDEX NAME)

L25 ANSWER 44 OF 79 CAPLUS COPYRIGHT 2001 ACS

GI



AB Title compds. I [R1, R2 = alkyl, (alkyl-substituted) cycloalkyl; R3-R6 = H, alkyl, cycloalkyl, aralkyl, pyridyl, Ph; X = O, S; m, n = 1-6] are prepd. I are useful for controlling accumulation of cholesterol ester on the smooth muscle of arterial walls. Treatment of N,N'-dicycloheptyl-m-xylenediamine (prepn. given) with 2,4-difluorophenylisocyanate in hexane gave II (R1 = R2 = cycloheptyl, R3 = R5 = 2,4-F2C6H3). The latter showed an IC50 of 1.8 .times. 10-8 M against ACAT.

ACCESSION NUMBER: 1990:55271 CAPLUS
DOCUMENT NUMBER: 112:55271
TITLE: Bis(ureidoalkyl)benzenes for inhibition of acylcoenzyme A cholesterol acyltransferase (ACAT)
INVENTOR(S): Ito, Noriki; Yasunaga, Tomoyuki; Iizumi, Yuichi; Araki, Tomio
PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 46 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 325397	A1	19890726	EP 1989-300380	19890117
EP 325397	B1	19930818		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CN 1034538	A	19890809	CN 1989-100286	19890114
CN 1021819	B	19930818		
AT 93230	E	19930915	AT 1989-300380	19890117
ES 2059714	T3	19941116	ES 1989-300380	19890117
HU 50116	A2	19891228	HU 1989-211	19890118
HU 207843	B	19930628		
DK 8900222	A	19890721	DK 1989-222	19890119
JP 02117651	A2	19900502	JP 1989-11717	19890119
AU 8928669	A1	19891005	AU 1989-28669	19890120
AU 627439	B2	19920827		
US 5091419	A	19920225	US 1990-593516	19901002
US 5166429	A	19921124	US 1991-764617	19910924
US 5227492	A	19930713	US 1992-906735	19920630
US 5384425	A	19950124	US 1993-64850	19931007
PRIORITY APPLN. INFO.:			JP 1988-10098	19880120
			JP 1988-180119	19880719
			US 1989-296443	19890111
			EP 1989-300380	19890117
			US 1990-592604	19901004

L25 ANSWER 44 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

	US 1991-764604	19910924
	US 1991-764617	19910924
	US 1992-906735	19920630

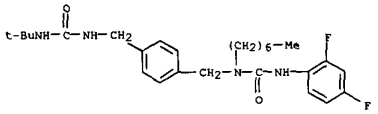
OTHER SOURCE(S): MARPAT 112:55271

IT **124884-57-7P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as acyl CoA cholesterol acyl-transferase inhibitor)

RN 124884-57-7 CAPLUS

CN Urea,
N-[[4-[[[[(2,4-difluorophenyl)amino]carbonyl]heptylamino]methyl]phenyl]methyl]-N'-(1,1-dimethylethyl)- (9CI) (CA INDEX NAME)



L25 ANSWER 45 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB Several polybenzimidazole-polyureas were prepd. by polymn. of o-phenylenediamine-2,2'-di(o-aminophenyl)-5,5'-dibenzimidazole or 2,2'-di(o-aminophenyl)-5,5'-dibenzimidazolemethane with TDI or with different alkyl chloride and KCNO. Model reactions of 2-(o-aminophenyl)benzimidazole with TDI or with bis(chloromethyl)xylene and KCNO were presented.

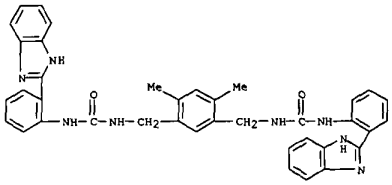
ACCESSION NUMBER:	1989:534854 CAPLUS
DOCUMENT NUMBER:	111:134854
TITLE:	Synthesis and characterization of poly(benzimidazole ureas)
AUTHOR(S):	Reddy, T. Ashok; Srinivasan, M.
CORPORATE SOURCE:	Dep. Chem., Indian Inst. Technol., Madras, 600 036, India
SOURCE:	J. Polym. Sci., Part A: Polym. Chem. (1989), 27(8), 2805-9 CODEN: JPACEC; ISSN: 0887-624X
DOCUMENT TYPE:	Journal
LANGUAGE:	English

IT **122665-37-6P 122665-38-7P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as model for polybenzimidazole-polyureas)

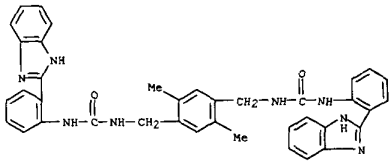
RN 122665-37-6 CAPLUS

CN Urea, N,N''-[(4,6-dimethyl-1,3-phenylene)bis(methylene)]bis[N'-[2-(1H-benzimidazol-2-yl)phenyl]- (9CI) (CA INDEX NAME)



RN 122665-38-7 CAPLUS

CN Urea, N,N''-[(2,5-dimethyl-1,4-phenylene)bis(methylene)]bis[N'-[2-(1H-benzimidazol-2-yl)phenyl]- (9CI) (CA INDEX NAME)



L25 ANSWER 45 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

L25 ANSWER 46 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB Aliph.-arom. polyureas were prepd. using 1,4-bis(isocyanatomethyl)-2,5-dimethylbenzene and 1,5-bis(isocyanatomethyl)-2,4-dimethylbenzene with various diamines. The polymers were characterized by elemental anal., TGA, DTA, IR, d. and viscosity measurements.

ACCESSION NUMBER:	1989:478710 CAPLUS
DOCUMENT NUMBER:	111:78710
TITLE:	Synthetic studies on aliphatic-aromatic copolyureas
AUTHOR(S):	Ibrahim, A. Mahammad; Mahadevan, V.; Srinivasan, M.
CORPORATE SOURCE:	Dep. Chem., Indian Inst. Technol., Madras, 600 036, India
SOURCE:	Eur. Polym. J. (1989), 25(4), 427-9 CODEN: EUPJAG; ISSN: 0014-3057
DOCUMENT TYPE:	Journal
LANGUAGE:	English

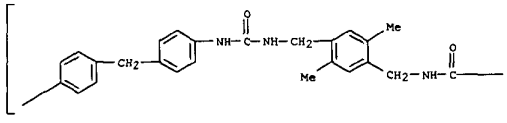
IT **121979-98-4P 121979-99-5P 121980-00-5P**
121980-01-6P 121980-02-7P 121980-03-8P
121980-04-9P 121980-05-0P 121980-06-1P
121980-07-2P 121980-08-3P 121980-09-4P
121980-10-7P 121980-11-8P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and properties of)

RN 121979-98-4 CAPLUS

CN Poly[iminocarbonyliminomethylene(2,5-dimethyl-1,4-phenylene)methyleneiminocarbonylimino-1,4-phenylenemethylene-1,4-phenylene] (9CI) (CA INDEX NAME)

PAGE 1-A



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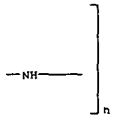

RN 121979-99-5 CAPLUS

CN Poly[iminocarbonyliminomethylene(2,5-dimethyl-1,4-phenylene)methyleneiminocarbonylimino-1,4-phenylene-1,2-ethanediyl-1,4-phenylene] (9CI) (CA INDEX NAME)

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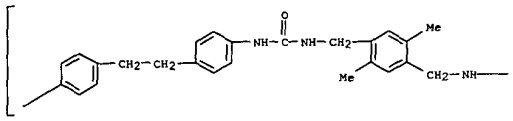

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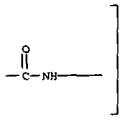

RN 121980-00-5 CAPLUS
CN Poly(thio-1,4-phenyleneiminocarbonyliminomethylene(2,5-dimethyl-1,4-phenylene)methyleneiminocarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

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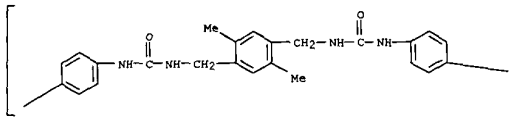
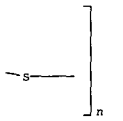


PAGE 1-B



RN 121980-01-6 CAPLUS
CN Poly[sulfonyl-1,4-phenyleneiminocarbonyliminomethylene(2,5-dimethyl-1,4-phenylene)methyleneiminocarbonylimino-1,4-phenylene] (9CI) (CA INDEX

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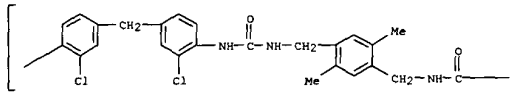
RN 121980-04-9 CAPLUS
CN Poly[iminocarbonyliminomethylene(2,5-dimethyl-1,4-phenylene)methyleneiminocarbonylimino(2-chloro-1,4-phenylene)methylene(3-chloro-1,4-phenylene)] (9CI) (CA INDEX NAME)

PAGE 1-A



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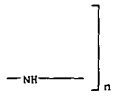
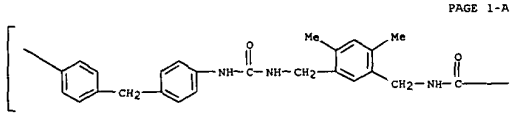
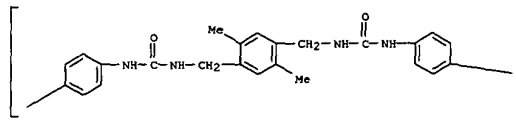


RN 121980-05-0 CAPLUS
CN Poly[iminocarbonyliminomethylene(4,6-dimethyl-1,3-phenylene)methyleneiminocarbonylimino-1,4-phenylenemethylene-1,4-phenylene] (9CI) (CA INDEX NAME)

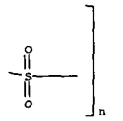
PAGE 1-A



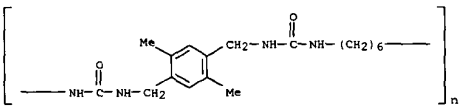
PAGE 1-A



PAGE 1-B



RN 121980-02-7 CAPLUS
CN Poly[iminocarbonyliminomethylene(2,5-dimethyl-1,4-phenylene)methyleneiminocarbonylimino-1,6-hexanediyl] (9CI) (CA INDEX NAME)



RN 121980-03-8 CAPLUS
CN Poly[iminocarbonyliminomethylene(2,5-dimethyl-1,4-phenylene)methyleneiminocarbonylimino[1,1'-biphenyl]-4,4'-diyl] (9CI) (CA
INDEX NAME)

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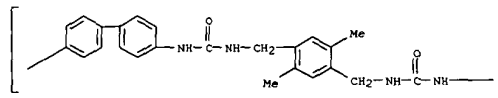
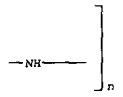
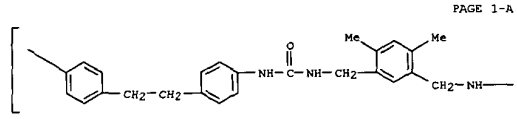


PAGE 1-B

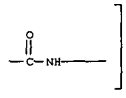


RN 121980-06-1 CAPLUS
CN Poly[iminocarbonyliminomethylene(4,6-dimethyl-1,3-phenylene)methyleneiminocarbonylimino-1,4-phenylene-1,2-ethanediyl-1,4-phenylene] (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



RN 121980-07-2 CAPLUS
CN Poly[thio-1,4-phenyleneiminocarbonyliminomethylene(4,6-dimethyl-1,3-phenylene)methyleneiminocarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

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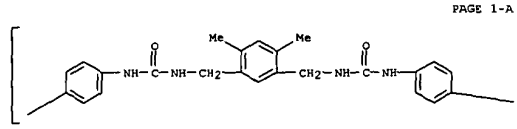
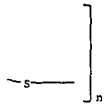


L25 ANSWER 46 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

PAGE 1-B



RN 121980-08-3 CAPLUS
CN Poly[sulfonyl-1,4-phenyleneiminocarbonyliminomethylene(4,6-dimethyl-1,3-phenylene)methyleneiminocarbonylimino-1,4-phenylene] (9CI) (CA INDEX NAME)

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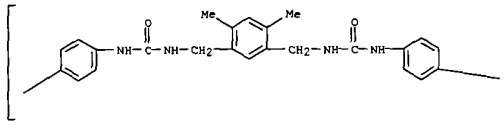

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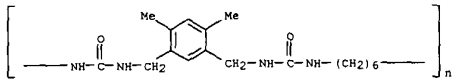
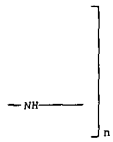
RN 121980-09-4 CAPLUS
CN Poly[iminocarbonyliminomethylene(4,6-dimethyl-1,3-phenylene)methyleneiminocarbonylimino-1,6-hexanediyl] (9CI) (CA INDEX NAME)



RN 121980-10-7 CAPLUS

L25 ANSWER 46 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

PAGE 1-B



L25 ANSWER 46 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)
CN Poly[iminocarbonyliminomethylene(4,6-dimethyl-1,3-phenylene)methyleneiminocarbonylimino[1,1'-biphenyl]-4,4'-diyl] (9CI) (CA
INDEX NAME)

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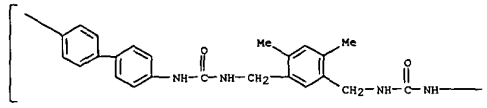

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RN 121980-11-8 CAPLUS
CN Poly[iminocarbonyliminomethylene(4,6-dimethyl-1,3-phenylene)methyleneiminocarbonylimino(2-chloro-1,4-phenylene)methylene(3-chloro-1,4-phenylene)] (9CI) (CA INDEX NAME)

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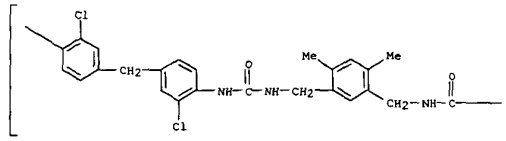


L25 ANSWER 47 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB The title compn. contains a polyurea-polyurethane having carboxy groups and is insol. in water but sol. in an aq. alk. soln. Presensitized lithog. plates using the title compns. show improved developability with an aq. alk. soln. and yield lithog. plates with improved durability.

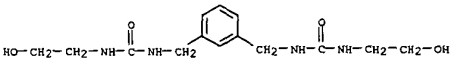
ACCESSION NUMBER: 1989:222612 CAPLUS
DOCUMENT NUMBER: 110:222612
TITLE: Photosensitive compositions containing polyurea-polyurethane having carboxy groups
INVENTOR(S): Aoso, Toshiaki; Maemoto, Kazuo; Kamiya, Akihiko
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63287943	A2	19881125	JP 1987-124402	19870521
JP 07120041	B4	19951220		

IT **120603-72-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and use of, for presensitized lithog. plates)
RN 120603-72-7 CAPLUS
CN Propanoic acid, 3-hydroxy-2-(hydroxymethyl)-2-methyl-, polymer with 1,6-diisocyanatohexane, 1,1'-methylenebis[4-isocyanatobenzene] and N,N''-[1,3-phenylenebis(methylene)]bis[N'-(2-hydroxyethyl)urea] (9CI) (CA
INDEX NAME)

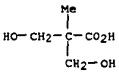
CM 1

CRN 120603-71-6
CMF C14 H22 N4 O4



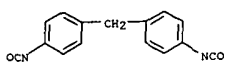
CM 2

CRN 4767-03-7
CMF C5 H10 O4



CM 3

L25 ANSWER 47 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)
CRN 822-06-0
CMF C8 H12 N2 O2



CM 4

CRN 101-68-8
CMF C15 H10 N2 O2

L25 ANSWER 48 OF 79 CAPLUS COPYRIGHT 2001 ACS
GI For diagram(s), see printed CA Issue.
AB A thermal recording material comprised of an electron-donating colorless dye and an electron-accepting compd. is claimed, wherein the colorless dye is a dimer of a 3-(4-substituted aminoaryl)-3-(substituted indol-3-yl)phthalide. The dimer composed of 3-(4-substituted aminoaryl)-3-(substituted indol-3-yl)phthalide moieties is connected via an alkylene or alkylene group having 1-20 C and contg. O or N. The colorless dye is selected from compds. represented by I, II, III, and IV [R = (substituted) C1-20 alkylene or alkylene; B = V; D = VI; E = VII; R1-R4 = H, (substituted) alkyl, (substituted) acyl, (substituted) aryl; R3 and R4 are taken together to form a 5- to 8-membered ring; R5-R7 = H, (substituted) alkyl, (substituted) aryl, halogen, (substituted) alkoxy, (substituted) amino; A = atoms necessary for forming a (substituted) arom. ring]. The thermal recording material produces color images having improved lightfastness.
ACCESSION NUMBER: 1988:619667 CAPLUS
DOCUMENT NUMBER: 109:219667
TITLE: Thermal recording material containing dye-forming components
INVENTOR(S): Satomura, Masato; Takashima, Masanobu; Iwakura, Ken; Matsuoka, Katsumi
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Eur. Pat. Appl., 26 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 262810	A2	19880406	EP 1987-307753	19870902
EP 262810	A3	19890830		
EP 262810	B1	19921209		
R: DE, GB				
JP 63062778	A2	19880319	JP 1986-207547	19860903
JP 05049034	B4	19930723		
JP 01009778	A2	19890113	JP 1987-164686	19870701
JP 01031678	A2	19890201	JP 1987-189496	19870729
US 4808566	A	19890228	US 1987-92846	19870903
AU 8779484	A1	19890105	AU 1987-79484	19871008
AU 605792	B2	19910124		

PRIORITY APPLN. INFO.: JP 1986-207547 19860903
JP 1987-164686 19870701
JP 1987-189496 19870729
OTHER SOURCE(S): CASREACT 109:219667
IT **117446-48-7**
RL: USES (Uses)
(color former, for thermal recording material)
RN 117446-48-7 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-[2-[5-(diethylamino)-2-[1,3-dihydro-1-(2-methyl-1-octyl-1H-indol-3-yl)-3-oxo-1-isobenzofuranyl]phenoxy]ethyl]- (9CI) (CA INDEX NAME)

L25 ANSWER 48 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

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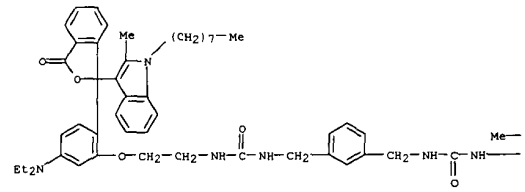

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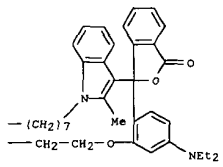
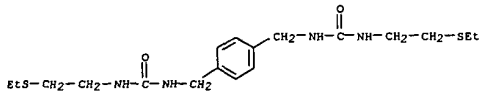


L25 ANSWER 49 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB The materials contain a Ag halide emulsion of surface latent-image type, a Ag halide emulsion with internally fogged particles, and X(ABCOB'A'SR)2 [A = C1-4 alkylene, -(CH2CH2O)p-, -(CH2CH2O)pCH2CH2-, -(CHMeCH2O)p-; B = polyalkylene ether not bonded through O; A' = C1-4 alkylene, -(CH2CH2O)pCH2CH2-, -(CHMeCH2O)pCHMeCH2-; A and A' are not poly(alkylene ethers) simultaneously; p = 2030; B, B' = NH, O (not simultaneously O); R = C1-8 alkyl, Ph, aralkyl, -(CH2)qCO2R'; q = 1-3; R' = lower alkyl; X = S, O, CH2, CHMeCH2, (CH2)2, Ph monosubstituted by C1-4 alkyl.]. The film has low Ag content, high sensitivity, high contrast, and high image d., and is esp. suitable as x-ray film. Thus, both sides of a PET substrate were coated with a mixt. of a surface latent image emulsion and an internally *fogged emulsion that contained S[CH2CH2NHCO2(CH)2CO2Et]2 0.5 mmol/mol Ag.* The former emulsion contained Ag(I, Br) of irregular shape sensitized with Au- and S-compds., and the latter contained Ag(Br, I) particles having Ag(Br, Cl) internal core fogged with AgNO3 and chloroauric acid. Protective layers were coated on the emulsion layers. Sensitometric exposure and rapid development (38.degree., 30 s) showed high sensitivity and low fog.
ACCESSION NUMBER: 1988:501711 CAPLUS
DOCUMENT NUMBER: 109:101711
TITLE: High-sensitivity silver halide photographic films
INVENTOR(S): Ono, Koji; Shiozawa, Hiroaki
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: *Jpn. Kokai Tokkyo Koho*, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62262040	A2	19871114	JP 1986-104454	19860507

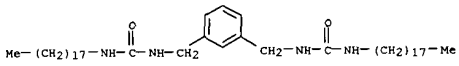
IT ***89552-83-0P***
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and use of, in x-ray emulsion, for high contrast and low silver content)
RN 89552-83-0 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-[2-(ethylthio)ethyl]- (9CI) (CA INDEX NAME)



L25 ANSWER 50 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB A heat-sensitive coloring layer for the title material contains a leuco dye, a color developer, and .gtoreq.1 RNHCONHZNHCONHR1 (I; R, R1 = C10-30 hydrocarbyl). The material shows improved heat sensitivity and produces high-d. images having excellent resistance to plasticizers and fingerprints. Thus, an aq. dispersion contg. 6'-(N-methyl-N-cyclohexylamino)-3'-methyl-2'-phenylaminofluoran, 4,4'-isopropylidenebisphenol, I (R, R1 = C18H37; Z = 1,3-CH2C6H4CH2), CaCO3, hydroxyethyl cellulose, and Me cellulose was coated on a paper sheet to 5.0 g/m2. The obtained recording material produced images with high d., which showed no appreciable bleaching after storage for 24 h at 40.degree. and 90% relative humidity or in contact with fingers.
ACCESSION NUMBER: 1987:544976 CAPLUS
DOCUMENT NUMBER: 107:144976
TITLE: Thermal recording material
INVENTOR(S): Inaba, Norihiko; Yuyama, Yukihiro; Yamamoto, Koji; Kato, Noritomo
PATENT ASSIGNEE(S): Ricoh Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62051480	A2	19870306	JP 1985-192186	19850830

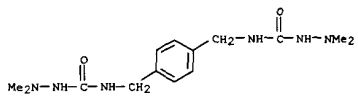
IT **104241-95-4**
RL: TEM (Technical or engineered material use); USES (Uses)
(thermal recording material contg., for improved plasticizer and fingerprint resistance)
RN 104241-95-4 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-octadecyl- (9CI) (CA INDEX NAME)



L25 ANSWER 51 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB Polyamide fibers to be dyed with acid dye or acidic metal complex dyes are treated to contain Cu, Ni, Co, and/or Mn salts and then finished with solns. contg. R2NNHCONHZNHCONHNR2 (I; R = C1-5 hydrocarbyl; Z = (CH2)n, CH2-p-C6H4CH2; n = 2-10) and dried to give dyed fiber products with excellent light and heat resistance. Fabric woven from nylon 6 filaments contg. CuI was dyed with Telon Yellow 2CS (acid dye) at 60.degree., soaped, washed, dried, padded in an aq. dispersion contg. 1.0% I [R = Me, Z = (CH2)6] (II), squeezed to 100% pickup, and dried at 120.degree. to give a dyed fabric with heat resistance (150.degree.) grade 5 and light resistance grade 4.5, vs. 2 and 1, resp., for the fabric without CuI and II treatment.
ACCESSION NUMBER: 1987:479441 CAPLUS
DOCUMENT NUMBER: 107:79441
TITLE: Improving light and heat resistance of dyed polyamide fiber products
INVENTOR(S): Ouchi, Seiichi; Arimatsu, Giichi; Fukuoka, Shigenori; Sekiya, Hideo
PATENT ASSIGNEE(S): Toyobo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61289181	A2	19861219	JP 1985-126875	19850610

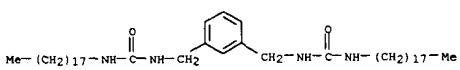
IT **109862-42-2**
RL: USES (Uses)
(dyed polyamide fibers finished with, for improved heat and light resistance)
RN 109862-42-2 CAPLUS
CN Hydrazinecarboxamide, N,N'-[1,4-phenylenebis(methylene)]bis[2,2-dimethyl- (9CI) (CA INDEX NAME)



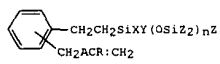
L25 ANSWER 52 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB The title materials contain overcoat layers contg. RNHCONHR1 and/or R2NHCONHZNHCONHR3 (R~R3 = C10-30 alkyl; Z = hydrocarbylene). The materials show good head-matching property and little deterioration in thermal sensitivity. Thus, a recording material was prepd. by using 3'-(N-methyl-N-cyclohexyl)amino-6'-methyl-7'-anilinofluoran, 1,7-di(4-hydroxyphenylthio)-3,5-dioxaheptane, and N,N'-distearylurea. The material was used for printing at 0.45 W/dot and 1.2 ms to show high color d., little sticking, and little scumming.
ACCESSION NUMBER: 1987:468282 CAPLUS
DOCUMENT NUMBER: 107:68282
TITLE: Heat-sensitive recording materials
INVENTOR(S): Yaguchi, Hiroshi; Sakamoto, Hiroshi
PATENT ASSIGNEE(S): Ricoh Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61287788	A2	19861218	JP 1985-131071	19850617

IT **104241-95-4**
RL: USES (Uses)
(thermal printing material with overcoat layer from)
RN 104241-95-4 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-octadecyl- (9CI) (CA INDEX NAME)



L25 ANSWER 53 OF 79 CAPLUS COPYRIGHT 2001 ACS
GI



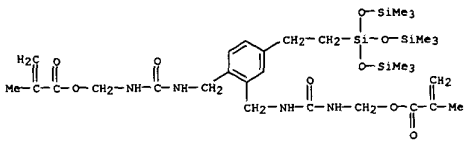
I

AB Contact lenses with improved O permeability and mech. properties are made of a hydrogel material and 5-60% of a siloxane comonomer I [A = OCO, NHCO, NHCONH(CH2)mOCO; m = 2-4; R = H, Me; X, Y = alkyl, Ph, W; W = (OSiZ2)nZ; Z = alkyl, Ph; n = 0-5]. I (A = OCO, R = Z = Me, X = Y = OSiMe3, n = 1) (prepn. given) was copolymd. with Me methacrylate, methacrylic acid and ethylene glycol dimethacrylate at 70.degree. for 72 h, followed by annealing at 120.degree., to give a hydrogel, which was shaped into optical lenses.
ACCESSION NUMBER: 1987:201796 CAPLUS
DOCUMENT NUMBER: 106:201796
TITLE: Hydrogels containing siloxane comonomers for contact lenses
INVENTOR(S): Park, Joonsup; Falcetta, Joseph J.
PATENT ASSIGNEE(S): Alcon Laboratories, Inc., USA
SOURCE: U.S., 9 pp. Cont.-in-part of U.S. Ser. No. 810,259.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4640941	A	19870203	US 1986-816766	19860107
US 4633003	A	19861230	US 1985-801259	19851125

PRIORITY APPLN. INFO.: US 1985-801259 19851123
OTHER SOURCE(S): CASREACT 106:201796
IT **108079-48-7D**, polymers with hydroxyalkyl acrylates and methacrylates
RL: BIOL (Biological study)
(for contact and intraocular lenses)
RN 108079-48-7 CAPLUS
CN 2-Propenoic acid, 2-methyl-, [4-[2-[3,3,3-trimethyl-1,1-bis[(trimethylsilyl)oxy]disiloxanyl]ethyl]-1,2-phenylene]bis(methyleneiminocarbonyliminomethylene) ester (9CI) (CA INDEX NAME)

L25 ANSWER 53 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)



IT **108079-55-6D**, polymers with hydroxyalkyl methacrylates and acrylates **108095-33-6D**, polymers with hydroxyalkyl methacrylates and acrylates
RL: BIOL (Biological study)
(hydrogel for contact and intraocular lenses)
RN 108079-55-6 CAPLUS
CN 2-Propenoic acid, 2-methyl-, [4-[2-[1,3,3,3-tetramethyl-1-

[(trimethylsilyl)oxy]disiloxanyl]ethyl]-1,2-phenylene]bis(methyleneiminocarbonylimino-2,1-ethanediyl) ester (9CI) (CA INDEX NAME)

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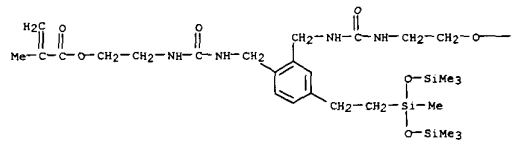

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RN 108095-33-6 CAPLUS
CN 2-Propenoic acid, 2-methyl-, [4-[2-[3,3,5,5,5-pentamethyl-1,1-bis[(pentamethyldisiloxanyl)oxy]trisiloxanyl]ethyl]-1,2-phenylene]bis(methyleneiminocarbonylimino-2,1-ethanediyl) ester (9CI) (CA
INDEX NAME)

L25 ANSWER 53 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

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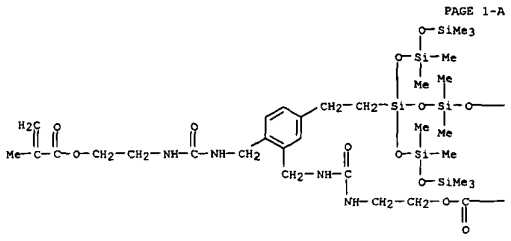

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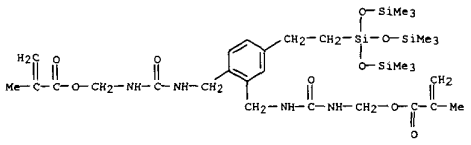
IT **108079-48-7P**
RL: PREP (Preparation)
(prepn. of, as comonomer, for contact lens hydrogels)
RN 108079-48-7 CAPLUS
CN 2-Propenoic acid, 2-methyl-, [4-[2-[3,3,3-trimethyl-1,1-bis[(trimethylsilyl)oxy]disiloxanyl]ethyl]-1,2-phenylene]bis(methyleneiminocarbonyliminomethylene) ester (9CI) (CA
INDEX NAME)

L25 ANSWER 53 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)



IT **108079-55-6P 108095-33-6P**
RL: PREP (Preparation)
(prepn. of, as monomer, for contact lens hydrogel copolymers)
RN 108079-55-6 CAPLUS
CN 2-Propenoic acid, 2-methyl-, [4-[2-[1,3,3,3-tetramethyl-1-

[(trimethylsilyl)oxy]disiloxanyl]ethyl]-1,2-phenylene]bis(methyleneiminocarbonylimino-2,1-ethanediyl) ester (9CI) (CA INDEX NAME)

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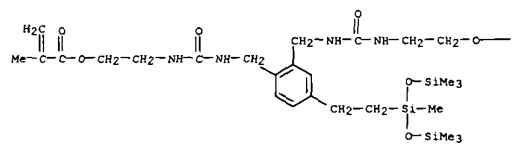

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RN 108095-33-6 CAPLUS
CN 2-Propenoic acid, 2-methyl-, [4-[2-[3,3,5,5,5-pentamethyl-1,1-bis[(pentamethyldisiloxanyl)oxy]trisiloxanyl]ethyl]-1,2-phenylene]bis(methyleneiminocarbonylimino-2,1-ethanediyl) ester (9CI) (CA
INDEX NAME)

L25 ANSWER 53 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

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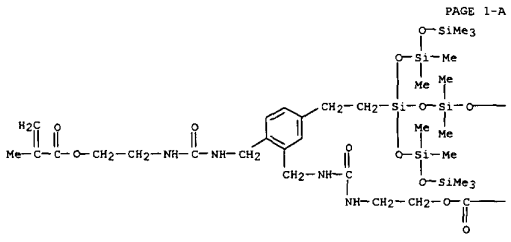

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L25 ANSWER 54 OF 79 CAPLUS COPYRIGHT 2001 ACS

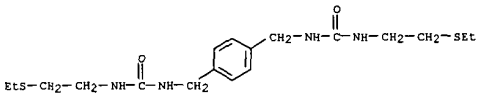
AB The addn. to a photog. developer of a compd. of the formula (RSZ2CO2Z3Z1)2Z4 [I; Z = C1-3 alkylene, (C2H4O)p, (C2H4O)pC2H4, (CHMeCH2O)p; Z1 = C1-3 alkylene, (C2H4O)pC2H4, (CHMeCH2O)pCHMeCH2, and either Z or Z1 is not a polyalkylene group; p = 2-30; Z2, Z3 = NH, O; R = C1-3 alkyl, Ph, aralkyl, (CH2)qCO2R1; q = 1-3; R1 = C1-3 alkyl; Z4 = S, O, CH2, CHMeCH2, phenylene, phenethylene, NR2; R2 = C1-3 alkyl] accelerates the rate of development and increases the photog. speed without any increase in fog or granularity. Thus, a high speed Ag(Br,I) x-ray film was processed by a developer contg. 1-phenyl-3-pyrazolidone, hydroquinone, carbonate, sulfite, and I (Z = Z1 = C2H4; Z2 = NH; Z3 = O; Z4 = S; and R = Me). The finished samples showed a remarkable increase in speed and a slight increase in contrast and max. d.

ACCESSION NUMBER: 1984:148458 CAPLUS
DOCUMENT NUMBER: 100:148458
TITLE: Developer composition for silver halide photographic materials
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 58207045	A2	19831202	JP 1982-89449	19820526

IT **89552-83-0**
RL: USES (Uses)
(photog. developer accelerator)

RN 89552-83-0 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-[2-(ethylthio)ethyl]- (9CI) (CA INDEX NAME)



L25 ANSWER 55 OF 79 CAPLUS COPYRIGHT 2001 ACS

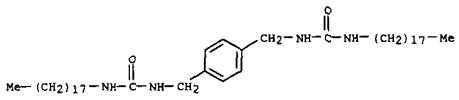
AB Fire-resistant poly(tetramethylene terephthalate) (I) compns. with good mech. properties. contain 1-10 phr NH4 polyphosphate and 0.01-1 phr RNHCONHZNHCONHR1 (Z = an arom. hydrocarbn residue; R, R1 = a C8-32 aliph. hydrocarbon group). Thus, an injection-molded specimen prepd. from a compn. contg. I 100, NH4 polyphosphate 3.5, and 1,4-bis(3-octadecylaminomethyl)benzene (II) [**65792-44-1**] 0.3 part had fire resistance rating (UL 94) V-2, tensile strength 560 kg/cm2, elongation 30%, Izod impact strength 3.4 kg-cm/cm, and NH4 polyphosphate lumping (counted for 0.5-1 mm-diam. particles) none, compared with V-2, 560 kg/cm2, 10%, 2.8 kg-cm/cm, and 1.3/10 cm2, resp., for a control prepd. from a compn. not contg. II.

ACCESSION NUMBER: 1983:55058 CAPLUS
DOCUMENT NUMBER: 98:55058
TITLE: Poly(tetramethylene terephthalate) compositions
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57100157	A2	19820622	JP 1980-177710	19801216

IT **65792-44-1**
RL: USES (Uses)
(dispersants, for ammonium polyphosphate fireproofing agents, in polyesters)

RN 65792-44-1 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-octadecyl- (9CI) (CA INDEX NAME)



L25 ANSWER 56 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB OCNZOCO2Z'OCO2ZNCO (Z, Z' = arom. residues) is treated with a diamine to prep. a polycarbonate urea. The polycarbonate urea is used for films, fibers, and coating materials. Thus, a mixt. of 0.02 mol p-isocyanatophenyl chloroformate [15056-69-6], 0.01 mol hydroquinone [123-31-9] and 60 mL THF was dissolved on an ice bath, then 30 mL THF contg. 0.2 mol. Et3N was added to prep. (p-OCNC6H4OCO2)2C6H4-p (I) [78067-16-0]. I (0.433 g) was added to 7 mL DMSO contg. 0.2 g 4,4'-diaminodiphenyl ether. The resulting polymer [78067-17-1] was pptd. in MeOH and rinsed with MeOH, and had reduced viscosity (0.5% in AcNMe2 contg. 5% LiCl, 30.degree.) 1.50 dL/g.

ACCESSION NUMBER: 1982:439542 CAPLUS
DOCUMENT NUMBER: 97:39542
TITLE: Polycarbonate ureas
PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 57042717	A2	19820310	JP 1980-117748	19800828

IT **82322-39-2P**
RL: PREP (Preparation)
(prepn. of)

RN 82322-39-2 CAPLUS
CN Poly(oxycarbonyloxy-1,4-phenyleneoxycarbonyloxy-1,4-phenyleneiminocarbonyliminomethylene-1,3-phenylenemethyleneiminocarbonylimino-1,4-phenylene) (9CI) (CA INDEX NAME)

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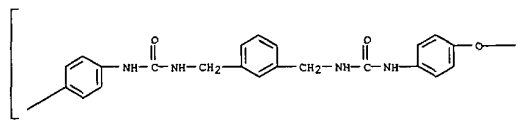

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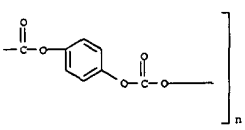
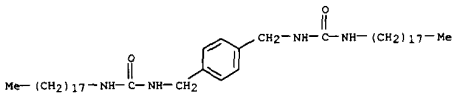


L25 ANSWER 56 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

L25 ANSWER 57 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB A compn. having good impact resistance and mold release properties *comprises a polyamide contg. urea deriv. RNHCONHR1NHCONHR2* (R1 = a divalent arom. hydrocarbon group; R1, R2 = C8-32 alkyl) and a graft copolymer of an ethylene-.alpha.-olefin copolymer and an unsatd. carboxylic acid. Thus, *80 parts nylon 6* [25038-54-4] and 20 parts 1-butene-ethylene-maleic anhydride graft copolymer [63625-36-5] were melt
blended at 250.degree. at *30* mm in an extruder and pelletized. To *100* parts of the pellets was added 0.15 part 1,4-bis(3-octadecylureidomethyl)benzene (I) [**65792-44-1**]. When the compn. was injection molded, 30 shots were made before release failure compared with 4 shots for the compn. contg. no I; impact resistance was 57
kg-cm/cm compared with 40 kg-cm/cm for the compn. contg. no I.
ACCESSION NUMBER: 1981:463307 CAPLUS
DOCUMENT NUMBER: 95:63307
TITLE: Polyamide resin composition
INVENTOR(S): Ohmura, Zasuhiro; Maruyama, Seiichiro; Kawasaki, Hiroyuku
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd. , Japan
SOURCE: Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 29566	A1	19810603	EP 1980-107120	19801117
EP 29566	B1	*19840418*		
R: CH, DE, FR, GB, IT				
JP 56074145	A2	19810619	JP 1979-151077	19791121
JP 63002983	B4	*19880121*		
US 4339555	A	19820713	US 1980-200579	19801024

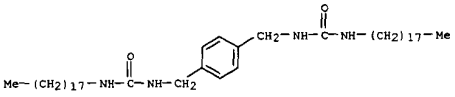
PRIORITY APPLN. INFO.: JP 1979-151077 19791121
IT **65792-44-1**
RL: USES (Uses)
(polyamide-ethylene copolymer compns. contg., impact-resistant and mold
releasing)
RN 65792-44-1 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-octadecyl- (9CI) (CA INDEX NAME)



L25 ANSWER 58 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB An arom. polyester-polycarbonate (I) which has intrinsic viscosity (CH2Cl2, 20.degree.) 0.3-1.5, Tg 160-90.degree., and CO2H end groups .ltoreq.10 .mu.equiv/g resin comprises p-HOC6H4ZC6H4OH-p (Z = divalent group, rings may be substituted) residues, terephthalic acid residues, and
carbonate linkages at molar ratios of 1:0.33-0.75:0.67-0.25 and contains 0.01-5 parts (per 100 parts I) urea compd. RNHCONHZ1NHCONHR1 (Z1 = arom. *hydrocarbon residue*; R, R1 = C8-32 aliph. *hydrocarbon residue*). Thus, a 3% CH2Cl2 soln. of terephthaloyl chloride, a 13% aq. soln. of bisphenol A Na salt (II), and 2% aq. Et3N were passed through a tubular glass reactor with *COCl2* introduced at the midpoint to give a *chloroformate*-terminated oligomer. A CH2Cl2 soln. of the oligomer, II, 25% NaOH soln., 2% Et3N soln., and p-tert-butylphenol were stirred at room temp. for 2h. The product (III) [74575-75-0] had intrinsic viscosity 0.49 and bisphenol A residue-terephthalic acid residue-carbonate linkage molar ratio 1:0.48:0.52. To 100 parts III 0.1 part 1,4-bis[(3-octadecylureido)methyl]benzene (IV) [**65792-44-1**] was added, and the mixt. was pelletized and injection molded at 340.degree. (mold temp. 137.degree.). The product showed mold releasability (no. of shots until ejector marks are apparent) 30 shots, injection pressure 920 kg/cm2, tensile and flexural strength (ASTM D 638-68 and 790, resp.) 710 and 870 kg/cm2, Izod impact strength (ASTM D 256) 42 kg-cm/cm, and deformation temp. 160.degree.. III without IV showed lower mold releasability (7 shots) and required higher pressure for molding (1050 kg/cm2).
ACCESSION NUMBER: 1981:140664 CAPLUS
DOCUMENT NUMBER: 94:140664
TITLE: Aromatic polyester-polycarbonate resin compositions
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 55131047	A2	19801011	JP 1979-39544	19790402

IT **65792-44-1**
RL: USES (Uses)
(mold release agent and lubricant, for arom. polyester polycarbonate)
RN 65792-44-1 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-octadecyl- (9CI) (CA INDEX NAME)



L25 ANSWER 59 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB Solns. of urea-urethanes and 0.1-2 mol LiCl/urea group in aprotic solvents
are thixotropic agents for coatings which are acceptable on an industrial hygiene basis. Thus, addn. of 1 mol 1:1 (molar) isotridecanol-TDI adduct soln. to 0.5 mol CH2(C6H4NH2-p)2 and 0.5 mol LiCl/urea group in N-methylpyrrolidone gives a 50% solids soln. of urea-urethane (71460-48-5) which gives clear gels with 1:9 xylene-iso-BuOH and cloudy gels with EtOCH2CH2OH, C5H11COC2H5, xylene, and 5:2:2:1 xylene-BuOH-MeOCH2CH2OH-cyclohexanone.
ACCESSION NUMBER: 1979:542165 CAPLUS
DOCUMENT NUMBER: 91:142165
TITLE: *Thixotropic agent for coating composition*
INVENTOR(S): Haubennestel, Karlheinz; Mehren, Rainer
PATENT ASSIGNEE(S): Byk-Mallinckrodt Chemische Produkte G.m.b.H., Fed. Rep. Ger.
SOURCE: Ger., 6 pp.
CODEN: GWXXAW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2822908	B1	19790719	DE 1978-2822908	19780526
DE 2822908	C2	19800320		
AT 7903238	A	19860815	AT 1979-3238	19790430
AT 382635	B	19870325		
EP 6252	A1	19800109	EP 1979-200226	19790509
EP 6252	B1	19840321		
R: BE, CH, FR, GB, IT, LU, NL, SE				
JP 54156040	A2	19791208	JP 1979-64085	19790525
JP 58029978	B4	19830625		
ES 480951	A1	19800816	ES 1979-480951	19790525
US 4314924	A	19820209	US 1979-42716	19790525

PRIORITY APPLN. INFO.: DE 1978-2822908 19780526
IT **71460-44-1**
RL: USES (Uses)
(thixotropic agents, contg. lithium chloride, for coatings)
RN 71460-44-1 CAPLUS
CN *Carbamic acid*, [1,3-phenylenebis[methyleneiminocarbonylimino(methylphenylene)]]bis-, bis(2-hexyldecyl) ester (9CI) (CA INDEX NAME)

L25 ANSWER 59 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

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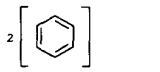

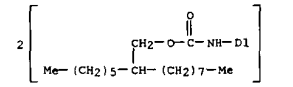

2 (D1—Me)

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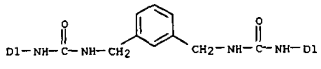

L25 ANSWER 60 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB The flammability and thermal stability of wholly arom. polyamides were superior to those of arom. polyamides contg. aliph. methylene units; and arom. polyhydrazides, arom. polyurethanes, and poly(acyloxyoxalicbis(amidrazone)] did not show *self-extinguishing* properties and good thermal stability. The flammability of iso-oriented polyamides was superior to that of para-oriented polyamides. This indicates that the iso-structure of polyamides is easily crosslinkable by thermal oxidn.

ACCESSION NUMBER: 1979:508358 CAPLUS
DOCUMENT NUMBER: 91:108358
TITLE: Studies on flame-resistant fibers. Part 1. The relationship between the structure and the flammability of various aromatic polyamides
AUTHOR(S): Tanaka, Itsuro; Watanabe, Kazuo
CORPORATE SOURCE: Cent. Res. Lab., Toyobo Co., Ltd., Ootsu, Japan
SOURCE: Sen'i Gakkaishi (1979), 35(6), T257-T263
CODEN: SENGA5; ISSN: 0037-9875
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

IT **31808-88-5 71210-38-3**
RL: USES (Uses)
(flammability and thermal stability of)

RN 31808-88-5 CAPLUS
CN Poly(iminocarbonyliminomethylene-1,3-phenylenemethyleneiminocarbonylimino-1,4-phenylenemethylene-1,4-phenylene) (9CI) (CA INDEX NAME)

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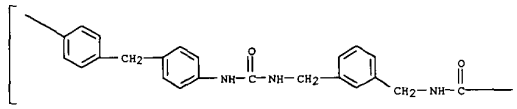

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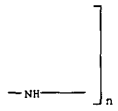

RN 71210-38-3 CAPLUS
CN Poly(iminocarbonyliminomethylene-1,4-phenylenemethyleneiminocarbonylimino-1,4-phenylenemethylene-1,4-phenylene) (9CI) (CA INDEX NAME)

L25 ANSWER 60 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

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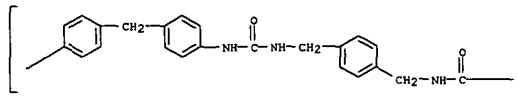

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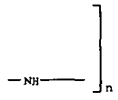


L25 ANSWER 61 OF 79 CAPLUS COPYRIGHT 2001 ACS

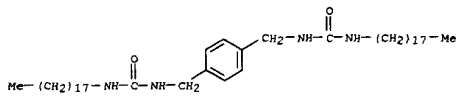
AB 1,4-Bis(3-octadecylureidomethyl)benzene (I) [**65792-44-1**] was used as a release agent for nylon 6 [25038-54-4] contg. cyanuric acid melamine salt (II) [16133-31-6], cyanuric acid [108-80-5], or melamine [108-78-1] as a fireproofing agent.

ACCESSION NUMBER: 1979:104986 CAPLUS
DOCUMENT NUMBER: 90:104986
TITLE: Polyamide resin compositions
INVENTOR(S): Omura, Yasuhiro; Miyoshi, Katsunori; Koga, Tokumichi; Murakami, Yukinobu
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: *Japanese*
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53125459	A2	19781101	JP 1977-40167	19770408
JP 55021062	B4	19800606		
US 4298518	A	19811103	US 1977-827256	19770824
PRIORITY APPLN. INFO.:			JP 1976-106530	19760906
			JP 1977-18974	19770223
			JP 1977-40167	19770408

IT **65792-44-1**
RL: USES (Uses)
(release agents, for polyamides contg. fireproofing agents)

RN 65792-44-1 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-octadecyl- (9CI) (CA INDEX NAME)



L25 ANSWER 62 OF 79 CAPLUS COPYRIGHT 2001 ACS

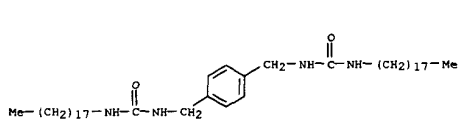
AB *Polyamide chips are treated with 0.005-1 wt.% tackifiers such as* polyalkylene glycol esters and 0.005-5 wt. % bisureido compds. to improve the injection moldability of the chips. Thus, 100 parts nylon 6 [25038-54-4] chips and 0.03 part Nonion L 4 [9004-81-3] were stirred, treated with 0.1 part 1,4-bis(3-octadecylureidomethyl)benzene (I) [**65792-44-1**], and stirred further. When the above chips were injection molded at 250.degree., the av. plasticization time was 11.0 s, and the no. of shots before release problems started (injection time 6 s, cooling time at mold temp. 80.degree. 3 s) 80-90, compared with 10.6 and 15-20 for similar chips treated with Ca stearate in place of I.

ACCESSION NUMBER: 1979:72921 CAPLUS
DOCUMENT NUMBER: 90:72921
TITLE: Polyamide chips for injection molding
INVENTOR(S): *Omura, Yasuhiro; Miyoshi, Katsunori; Koga, Tokumichi*
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

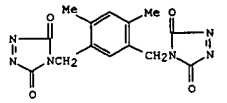
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 53126056	A2	19781102	JP 1977-41086	19770411
JP 55021063	B4	19800606		

IT **65792-44-1**
RL: USES (Uses)
(release agents, contg. polyethylene glycol esters, in injection molding of nylon 6)

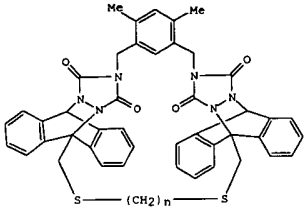
RN 65792-44-1 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-octadecyl- (9CI) (CA INDEX NAME)



L25 ANSWER 63 OF 79 CAPLUS COPYRIGHT 2001 ACS
GI



I

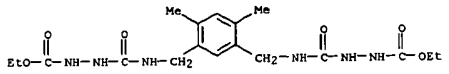


II

AB The title compd. (I) was prepd. by the addn. reaction of 1,5-bis(isocyanatomethyl)-2,4-dimethylbenzene with H2NNHCO2Et, cyclization of th product, and dehydrogenation of the resulting bis-triazolidinedione. I underwent cycloaddn. across the N:N bonds with cyclopentadiene, 1,3-cyclohexadiene, anthracene, and .alpha.,.omega.-bis(9-anthrylmethylthio)alkanes. The latter compds. gave cyclophanes II (n = 8, 12).

ACCESSION NUMBER: 1979:6317 CAPLUS
DOCUMENT NUMBER: 90:6317
TITLE: Synthesis and cycloadditions of 1,5-bis(3,5-dioxo-.DELTA.1-1,2,4-triazolin-4-ylmethyl)-2,4-dimethylbenzene
AUTHOR(S): Wald, Klemens; Wamhoff, Heinrich
CORPORATE SOURCE: Inst. Org. Chem. Biochem., Univ. Bonn, Bonn, Ger.
SOURCE: Chem. Ber. (1978), 111(10), 3519-23
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
IT **68562-11-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and cyclization of)
RN 68562-11-8 CAPLUS
CN Hydrazinecarboxylic acid, 2,2'-[(4,6-dimethyl-1,3-phenylene)bis(methyleneiminocarbonyl)]bis-, diethyl ester (9CI) (CA INDEX NAME)

L25 ANSWER 63 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

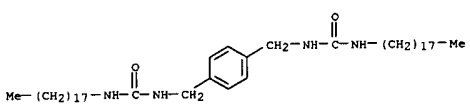


L25 ANSWER 64 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB Melamine cyanurate (I) (i.e., reaction product of cyanuric acid and melamine) was mixed with nylon 6 [25038-54-4] to give a fireproofing agent which did not migrate from the polymer during molding or aging. In some cases, the nylon 6-I mixts. were mixed with CuCl, KI, and SnCl2 for improved heat resistance, with an alkylenebisstearamide for improved dispersion of the I, or with a bisureido compd. as a lubricant for improved molding. Thus, a mixt. 94% nylon 6 and 6% I had good fire resistance (V-0 in UL 94 test).

ACCESSION NUMBER: 1978:171165 CAPLUS
DOCUMENT NUMBER: 88:171165
TITLE: Polyamide resin composition
INVENTOR(S): Ohmura, Yasuhiro; Murakami, Yukinobu; Hidaka, Ryoji
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd., Japan
SOURCE: Ger. Offen., 23 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2740092	A1	19780316	DE 1977-2740092	19770906
DE 2740092	B2	19800508		
DE 2740092	C3	19871022		
JP 53031759	A2	19780325	JP 1976-106530	19760906
JP 58025379	B4	19830527		

PRIORITY APPLN. INFO.: JP 1976-106530 19760906
IT **65792-44-1**
RL: USES (Uses)
(lubricants, polyamides contg. melamine cyanurate fireproofing agent and, for improved molding)
RN 65792-44-1 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-octadecyl- (9CI) (CA INDEX NAME)

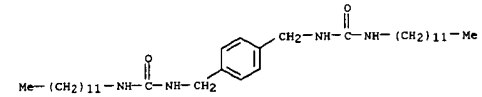


L25 ANSWER 65 OF 79 CAPLUS COPYRIGHT 2001 ACS
AB Molded plastics, with improved mold releasability, were prepd. by blending a urea compd. with a thermoplastic resin and molding the blend. Thus, a blend of poly(butylene terephthalate) (I) [24968-12-5] contg. 0.05% (based on I) 1,4-bis[(3-octadecylureido)methyl]benzene [**65792-44-1**] was injection molded to give a product with good mold releasability, whereas mold releasability was poor for a product molded from I only.

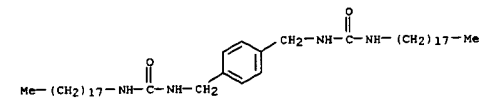
ACCESSION NUMBER: 1978:106248 CAPLUS
DOCUMENT NUMBER: 88:106248
TITLE: Thermoplastic resin compositions
INVENTOR(S): Omura, Yasuhiro; Miyoshi, Masanori; Irie, Hiroyuki; Koga, Norimichi
PATENT ASSIGNEE(S): Mitsubishi Chemical Industries Co., Ltd., Japan
SOURCE: Japan. Kokai, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 52119654	A2	19771007	JP 1976-36612	19760401
JP 53039458	B4	19781021		

IT **65792-45-2**
RL: USES (Uses)
(release agents, for molding of polyamides)
RN 65792-45-2 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-dodecyl- (9CI) (CA INDEX NAME)



IT **65792-44-1**
RL: USES (Uses)
(release agents, for molding of polycarbonates or polyamides)
RN 65792-44-1 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-octadecyl- (9CI) (CA INDEX NAME)



L25 ANSWER 65 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

L25 ANSWER 66 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB Polysemicarbazide fibers with improved hydrophilicity were prepd. from copolymers of m-C6H4(CH2NCO)2 (I), m-C6H4(CONHNH2)2 (II), and optionally sebacic acid dihydrazide (III), azelaic acid dihydrazide, or adipic acid dihydrazide. *For example*, 2.1 denier I-II-III copolymer [62286-00-4] fiber (II:III = 95:5) had tenacity 3.03 g/denier and elongation 24.5% and higher hydrophilicity than that from copolymers using bis(4-isocyanatocyclohexyl)methane or 4,4'-diphenylmethane diisocyanate in place of I.

ACCESSION NUMBER: 1977:156919 CAPLUS
DOCUMENT NUMBER: 86:156919
TITLE: Polysemicarbazide fibers
INVENTOR(S): Murayama, Ken; Shizuki, Tatsuhiko; Ehara, Masanao
PATENT ASSIGNEE(S): Toyobo Co., Ltd., Japan
SOURCE: Japan. Kokai, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 51147598	A2	19761217	JP 1975-71528	19750612
JP 57036931	B4	19820806		

IT **62271-75-4**
RL: USES (Uses)
(fiber, hydrophilic)
RN 62271-75-4 CAPLUS
CN Poly(hydrazocarbonyliminomethylene-1,3-phenylenemethyleneiminocarbonylhydrazocarbonyl-1,3-phenylenecarbonyl) (9CI) (CA INDEX NAME)

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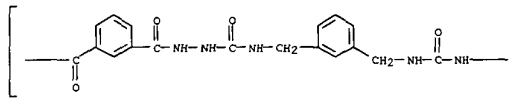

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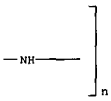
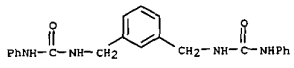


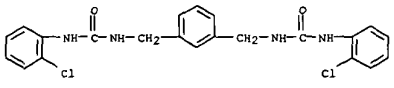
L25 ANSWER 67 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB The NMR NH proton shift factor (.delta.) (from Me4Si) for an aralkyl urea deriv., e.g., N,N'-dibenzylurea [1466-67-7], and an aralkyl urethane deriv., e.g., ethyl benzylcarbamate [2621-78-5] in Me2SO was 6.40-7.42 ppm and 7.43-7.55 ppm resp.; and .delta. for 1,3,5-tribenzylbiuret [54772-32-6] and Et .alpha.,.gamma.-dibenzylallophanate [52917-30-3] was 8.75 and 9.02 ppm, resp. The .delta. for an aliph. urea deriv., e.g., N,N'-diethylurea [623-76-7], and an aliph. urethane deriv., e.g., Me ethylcarbamate [6135-31-5], was 5.70 and 6.95 ppm, resp. The .delta. for the *CH2 protons of benzyl isocyanate* [3173-56-6] was 4.42 ppm.

ACCESSION NUMBER: 1975:126305 CAPLUS
DOCUMENT NUMBER: 82:126305
TITLE: Structure of polyurethane elastomers. V. NMR spectra of aralkyl and aliphatic isocyanate derivatives
AUTHOR(S): Chokki, Yasuo; Fujinami, Kimiya
CORPORATE SOURCE: Chem. Prod. Div., Takeda Chem. Ind. Ltd., Osaka, Japan
SOURCE: Nippon Kagaku Kaishi (1974), (12), 2407-13
CODEN: NKAKB8
DOCUMENT TYPE: Journal
LANGUAGE: *Japanese*
IT **36411-65-1 54772-33-7 54772-34-8 54772-35-9**
RL: PRP (Properties)
(NMR of)
RN 36411-65-1 *CAPLUS*
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-phenyl- (9CI) (CA INDEX NAME)

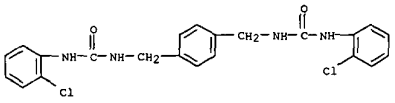


RN 54772-33-7 CAPLUS
CN *Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-(2-chlorophenyl)- (9CI)* (CA INDEX NAME)

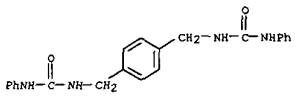


RN 54772-34-8 *CAPLUS*
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-(2-chlorophenyl)- (9CI) (CA INDEX NAME)

L25 ANSWER 67 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)



RN 54772-35-9 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-phenyl- (9CI) (CA INDEX NAME)



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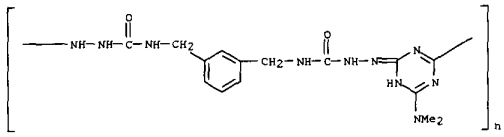
AB The copolymers of hydrazinotriazines I (R = NMe2, NEt2, NPr2, or NBu2) and m-C6H4(NCO)2 and of I (R = Me or Ph) and 2,4-tolylene diisocyanate, prepd. in aprotic polar solvents had intrinsic viscosity 0.10-0.59 dl/g (Me2SO, 30.deg.), were sol. in polar solvents, and had decompn. temp. (in N) at 250-90.deg. (DTA, thermogravimetric anal.). The ir and NMR spectra of the polymers prepd. were compared with the model compds., 2,4-bis(dimethylamino)-6-phenylureidoamino-s-triazine, 2,4-bis(phenylureidoamino)-6-phenyl-s-triazine, and 2,4-bis(phenylureidoamino)-6-methyl-s-triazine.

ACCESSION NUMBER: 1973:84869 CAPLUS
DOCUMENT NUMBER: 78:84869
TITLE: Synthesis of poly(s-triazinoureas)
AUTHOR(S): Honda, Itaru; Unishi, Terunobu; Hashimoto, Yoshinori; Shimomura, Yoji; Takaoka, Michio; Hasegawa, Ryoichi; Suzuki, Masao
CORPORATE SOURCE: Fac. Eng., Fukui Univ., Fukui, Japan
SOURCE: Asahi Garasu Kogyo Gijutsu Shoreikai Kenkyu Hokoku (1972), 20, 143-56
CODEN: AGKGAA
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
IT **41080-70-0P 41080-71-1P 41080-72-2P 41162-90-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 41080-70-0 CAPLUS
CN Poly[[6-(dimethylamino)-1,3,5-triazine-2,4-diyl]hydrazocarbonyliminomethylene-1,3-phenylenemethyleneiminocarbonylhydrazo] (9CI) (CA INDEX NAME)



RN 41080-71-1 CAPLUS
CN Poly[[6-(diethylamino)-1,3,5-triazine-2,4-diyl]hydrazocarbonyliminomethylene-1,3-phenylenemethyleneiminocarbonylhydrazo] (9CI) (CA INDEX NAME)

L25 ANSWER 68 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

RN 41162-90-7 CAPLUS
CN Poly[[6-(dibutylamino)-1,3,5-triazine-2,4-diyl]hydrazocarbonyliminomethylene-1,3-phenylenemethyleneiminocarbonylhydrazo] (9CI) (CA INDEX NAME)

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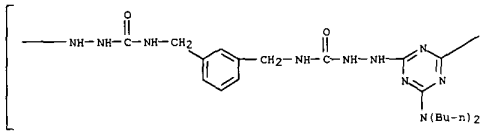

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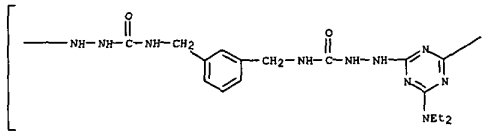

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RN 41080-72-2 CAPLUS
CN Poly[[6-(dipropylamino)-1,3,5-triazine-2,4-diyl]hydrazocarbonyliminomethylene-1,3-phenylenemethyleneiminocarbonylhydrazo] (9CI) (CA INDEX NAME)

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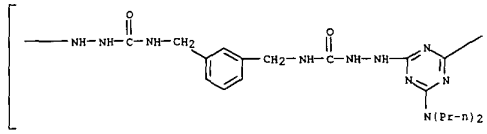

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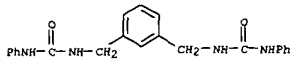
AB One of 5 xylylenebis(3-phenylurea) derivs., e.g. m-xylylenebis(3-phenylurea) (I) [**36411-65-1**] or m-xylylenebis[3-(2-methylphenyl)urea] [**38013-10-4**], was added to a natural rubber or SBR compn. to improve the ozone resistance of the vulcanizate without stain causing migration. Thus, a compn. of SBR 1502 100, CaCO3 100, stearic acid 1, ZnO 5, S 2.5, an accelerator 1.0, and I 2 parts was vulcanized 20 min at 140.deg.. The vulcanizate endured 30 hr in 0.5 ppm ozone atm. at 38.deg. with 20% stretching, compared with 3 hr for a similar vulcanizate without I. The stain causing migration test for the former vulcanizate was neg. after 3 days of outdoor exposure.

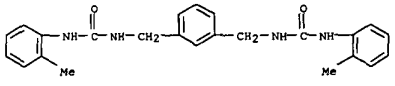
ACCESSION NUMBER: 1973:31183 CAPLUS
DOCUMENT NUMBER: 78:31183
TITLE: Nonstaining nonmigrating antiozonants for rubber
INVENTOR(S): Ito, Masatomo; Miyazawa, Yasuo; Aiguchi, Hideomi; Tanaka, Nobuyuki
PATENT ASSIGNEE(S): Showa Denko K. K.
SOURCE: Japan., 3 pp.
CODEN: JAXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 47029576	B4	19720803	JP 1968-59924	19680823

IT **36411-65-1 38013-10-4**
RL: USES (Uses)
(antiozonants, for butadiene-styrene rubber)
RN 36411-65-1 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-phenyl- (9CI) (CA INDEX NAME)



RN 38013-10-4 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-(2-methylphenyl)- (9CI) (CA INDEX NAME)



L25 ANSWER 70 OF 79 CAPLUS COPYRIGHT 2001 ACS

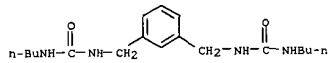
AB A polypropylene (I) [9003-07-0] compn. having improved heat resistance contained a urea deriv., e.g., 1,1'-m-xylylenebis(3-butylurea) (II) [**36966-14-0**], and dilauryl thiodipropionate (III) [123-28-4] or *distearyl thiodipropionate* [693-36-7]. *For example*, a 0.5 *mm* thick I sheet contg. 0.1% II and 0.1% III had heat resistance (time to crack, 120.deg., air oven) 600 hr, compared with 20 hr for I alone, 23 hr for I contg. 0.1% II, and 60 hr for I contg. 0.1% III. The urea derivs. also used were 1,1'-p-xylylenebis(3-cyclohexylurea) [**36966-15-1**], a 1,1'-m-xylylenebis(3-benzylurea) [**36966-16-2**]-1,1'-p-xylylenebis(3-benzylurea) [**36966-17-3**] mixt., 1,1'-m-xylylenebis(3,3-dimethylurea) [16578-48-6]-1,1'-p-xylylenebis(3,3-dimethylurea) [36966-19-5] mixt., 1,1'-m-xylylenebis(3,3-dibenzylurea) [36966-20-8], and 1,1'-(2,5-dimethyl-p-xylylene)bis(3-butylurea) [**36966-21-9**].

ACCESSION NUMBER: 1972:553270 CAPLUS
DOCUMENT NUMBER: 77:153270
TITLE: Stabilized polyolefin compositions
INVENTOR(S): Ito, Seicho; Miyazawa, Yasuo; Tsurutani, Tetsuo
PATENT ASSIGNEE(S): Showa Denko K. K.
SOURCE: Japan., 4 pp.
CODEN: JAXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

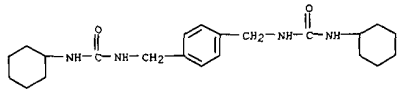
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 47017901	B4	19720524	JP 1969-25578	19690404

IT **36966-14-0 36966-15-1 36966-16-2 36966-17-3 36966-21-9**
RL: MOA (Modifier or additive use); USES (Uses)
(heat stabilizers, contg. thiodipropionates, for polypropylene)

RN 36966-14-0 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-butyl- (9CI) (CA INDEX NAME)

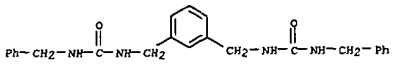


RN 36966-15-1 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-cyclohexyl- (9CI) (CA INDEX NAME)

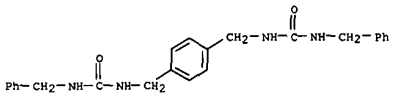


RN 36966-16-2 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-(phenylmethyl)- (9CI) (CA

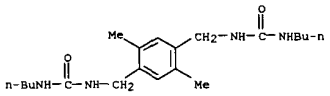
L25 ANSWER 70 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)
INDEX NAME)



RN 36966-17-3 CAPLUS
CN Urea, N,N''-[1,4-phenylenebis(methylene)]bis[N'-(phenylmethyl)- (9CI) (CA
INDEX NAME)



RN 36966-21-9 CAPLUS
CN Urea, N,N''-[(2,5-dimethyl-1,4-phenylene)bis(methylene)]bis[N'-butyl- (9CI) (CA *INDEX NAME*)



L25 ANSWER 71 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB *The urea derivs. I (R, R' = H or Me), e.g., m-xylylenebis(3-phenylurea)* (II) [**36411-65-1**] and dilauryl thiodipropionate (III) [123-28-4] or lauryl stearyl thiodipropionate [13103-52-1] were synergistic heat stabilizers for polypropylene (IV) [9003-07-0] . For example, IV contg. 0.1% II + 0.1% III, 0.1% II, and 0.1% III had heat resistance (120.deg., time to fracture) 480, 24, and 60 hr, resp.

ACCESSION NUMBER: 1972:502714 CAPLUS
DOCUMENT NUMBER: 77:102714
TITLE: Heat-resistant polypropylene compositions containing a
urea derivative and a thiodipropionate
INVENTOR(S): Ito, Masatomo; Miyazawa, Yasuo; Sasaki, Tadahiro
PATENT ASSIGNEE(S): Showa Denko K. K.
SOURCE: *Japan.*, 4 pp.
CODEN: JAXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 46041462	B4	19711207	JP 1968-60878	19680827

IT **36411-65-1**
RL: MOA (Modifier or additive use); USES (Uses)
(heat stabilizers, for polypropylene)

RN 36411-65-1 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-phenyl- (9CI) (CA INDEX NAME)

L25 ANSWER 72 OF 79 CAPLUS COPYRIGHT 2001 ACS

GI *For diagram(s), see printed CA Issue.*

AB Treating .omicron.-xylylene dihalides with NH3 or its derivs. PhCH2NH2, Ph2NNH2, carboxylic acid hydrazides, urea, or cyanamide gave isoindoline I
(R = H) and its 2-substituted derivs. with R = PhCH2, Ph2N, acylamino, and
imino-substituted alkoxymethyl or chloromethyl.
.omicron.-Xylylenediamine
derivs. were obtained in some cases. The best yields of the isoindolines were obtained at low xylylene dihalide concn., or by use of toluene-water reaction medium and *NaOH* catalyst.

ACCESSION NUMBER: 1972:72345 CAPLUS
DOCUMENT NUMBER: 76:72345
TITLE: Alkylation of ammine and some of its derivatives thorugh o-xylylene dihalide
AUTHOR(S): Dauth, Ch.; Becker, H. G. O.
CORPORATE SOURCE: Forschungstelle, VEB Arzneimittelwerk Dresden, Radebeul, E. Ger.
SOURCE: J. Prakt. Chem. (1971), 313(4), 686-98
CODEN: JPCEAO
DOCUMENT TYPE: Journal
LANGUAGE: German

IT **35180-29-1P**
RL: *SPN (Synthetic preparation); PREP (Preparation)*
(prepn. of)

RN 35180-29-1 CAPLUS
CN Urea, N,N''-[1,2-phenylenebis(methylene)]bis- (9CI) (CA INDEX NAME)

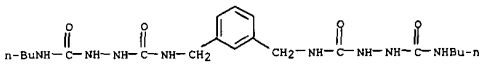
L25 ANSWER 73 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB N,N'-Arylene-or-alkylenebis 1-(alkylcarbamoylazo)formamides% which were prepd. by oxidn. of the corresponding diisocyanate-alkylsemicarbazide reaction product, were used as battery depolarizers. Thus, a battery cell with a CM-cellulose-Zn metal laminate coated glass cylinder and a cathode mixt. contg. C black, ZnCl2, NH4Br, H2O, and N,N'-hexamethylenebis 1-(methylcarbamoylazo)formamide%, prepd. by oxidn. of a hexamethylene diisocyanate-methylsemicarbazide reaction product with an NH4NO3-Cu(OAc)2.H2O-HOAc soln., had 68% theoretical capacity on the 1st discharge, 35% on the 2nd, and 25% on the 27th. Three other alkylcarbamoylazoformamides were used.

ACCESSION NUMBER: 1971:494036 CAPLUS
DOCUMENT NUMBER: 75:94036
TITLE: *Battery with a poly(azobisformamide) depolarizer*
INVENTOR(S): Kraebel, Charlotte M.
PATENT ASSIGNEE(S): American Cyanamid Co.
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3594231	A	19710720	US 1969-844208	19690723

IT **34062-61-8**
RL: PRP (Properties)
(electrolytic depolarizers, for primary and secondary cells)
RN 34062-61-8 CAPLUS
CN Biurea, 1,1'-(m-phenylenedimethylene)bis[6-butyl- (8CI) (CA INDEX NAME)

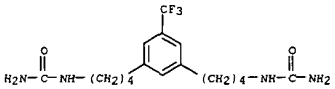


L25 ANSWER 74 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB To 2.6 g H2SO4 (d. 1.82) and 1.2 g HNO3 (d. 1.5) was added at 40-50.degree. 3.75 g PhC3F7 and the mixt. heated 2 hr at 50.degree. to give 79% 3-nitro deriv. (*I*), b6 92-4.degree., d20 1.5508, n20D 1.4253. HNO3 in 30% oleum in 1 hr at 95-7.degree. gave the 3,5-dinitro deriv., m.45-6.degree.. Reduced with Fe in aq. HCl, this gave the 3,5-diamino deriv., m. 93-4.degree., after 4 hr heating; di-Ac deriv. m. 250-1.degree.. The diamine and COCl2 gave 80% 3,5-diisocyanate, b7 110-12.degree., 1.6047, 1.4602, which conventionally gave the 3,5-bis(methylurethane) deriv., m. 139-40.degree.; and 3,5-bis(ureido) deriv., m. 227-8.degree.. I was reduced with Fe-HCl to the 3-amino analog, b3 74-5.degree., 1.4851, 1.4245; its Ac deriv., m. 117-18.degree., and mixed acid kept 4.5 hr at room temp. gave 89% 2-nitro deriv., m. *115-16.degree., which with Fe-HCl wasreduced to the 2-amino-5-acetamido* analog, m. 105-6.degree., which heated with 20% HCl gave 96% 2,5-diamino analog, m. 66-7.degree.; di-Ac deriv. m. 193-4.degree.. The diamine and COCl2 gave the 2,5-diisocyanate, b20 113.degree., which gave the 2,5-bis(methylurethane), m. 143-4.degree., and 2,5-bis(ureido) deriv., m. 235.degree.. 1-Trifluoromethyl-3,5-phenylenediamine added to COCl2 in C6H3Cl3 at 60-70.degree. gave 1-trifluoromethyl-3,5-phenylene diisocyanate, b2110-11.degree.; similarly was prepd. 56% 1-trifluoromethyl-2,5-phenylene diisocyanate, b7 105-7.degree..

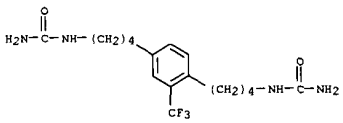
ACCESSION NUMBER: 1970:78563 CAPLUS
DOCUMENT NUMBER: 72:78563
TITLE: *Perfluoroalkylphenylene diisocyanates and their derivatives*
AUTHOR(S): Malichenko, B. F.; Tsypina, O. N.
CORPORATE SOURCE: Inst. Khim. Vysokomol. Soedin., Kiev, USSR
SOURCE: *Zh. Obshch. Khim. (1969), 39(11), 2515-19*
CODEN: ZOKHA4
DOCUMENT TYPE: Journal
LANGUAGE: Russian

IT **25620-69-3P 25620-73-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 25620-69-3 CAPLUS
CN Urea, 1,1'-[[5-(trifluoromethyl)-m-phenylene]bis(tetramethylene)]di- (8CI)
(CA INDEX NAME)



RN 25620-73-9 CAPLUS
CN *Urea, 1,1'-[[2-(trifluoromethyl)-p-phenylene]bis(tetramethylene)]di-* (8CI)
(CA INDEX NAME)

L25 ANSWER 74 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)



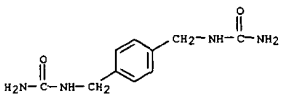
L25 ANSWER 75 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB p-(H2NCONHCH2)2C6H4 (I) or PhCH2NHCONH2 (II) is used as an antiager, esp. for transparent vulcanizates. Thus, 2 parts I or II is added to a rubber mixt. consisting of natural rubber 100, active ZnO 1, hydrated SiO2 35, stearin 1, diethylene glycol 2, S 25, mercaptobenzothiazole 1.6, and diphenylguanidine 0.3 part.

ACCESSION NUMBER: 1969:492484 CAPLUS
DOCUMENT NUMBER: 71:92484
TITLE: Vulcanizates resistants to aging
INVENTOR(S): Czyzewicz, Jerzy; Pieniazek, Jan
PATENT ASSIGNEE(S): Instytut Przemyslu Gumowego
SOURCE: Pol., 2 pp.
CODEN: POXXA7
DOCUMENT TYPE: Patent
LANGUAGE: Polish
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PL 57328		19690515	PL	19670720

IT **3840-25-3**
RL: USES (Uses)
(as antioxidant for rubbers)
RN 3840-25-3 CAPLUS
CN Urea, 1,1'-(p-phenylenedimethylene)di- (7CI, 8CI) (CA INDEX NAME)



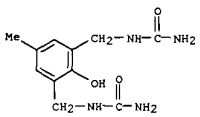
L25 ANSWER 76 OF 79 CAPLUS COPYRIGHT 2001 ACS

AB The reaction of phenols and hexamethylenetetramine (I) in the presence of urea (II) was studied. A mixt. of p-cresol 0.1, I 0.015, II 0.1 mole, and *Ethyl Cellosolve 20 ml. was refluxed at 139.degree..* Samples were taken out at intervals; paper chromatog. using water and benzene-AcOH-water gave paper chromatograms which were compared with those of authentic compds. 2-Hydroxy-5-methylbenzylurea, 2,6-diureidomethyl-4-methylphenol, *N,N'-bis(2-hydroxy-5-methylbenzyl)urea*, and *N,N-bis(2-hydroxy-5-methylbenzyl)urea* were formed as intermediates. The reaction mechanisms are discussed. Phenol 1, I 0.10-0.31, and II 0-1.2 mole were heated at 155.degree. with stirring until the sample taken became solid at room temp. The reaction products were finely pulverized and washed with water to remove unchanged I and II, which were analyzed by an ir spectrophotometer. The amt. of combined II in the condensation product of Novolac type resin was 17% at the most.

ACCESSION NUMBER: 1969:438552 CAPLUS
DOCUMENT NUMBER: 71:38552
TITLE: Cocondensation of phenols and urea with hexamethylenetetramine
AUTHOR(S): Koya, Yoshimi; Sakaguchi, Teizo; Takahashi, Akio
CORPORATE SOURCE: Shinmeiko Ind., Yuki, Japan
SOURCE: Kagaku To Kogyo (Osaka) (1969), 43(3), 147-56
CODEN: KKGOAG
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

IT **22714-52-9**
RL: RCT (Reactant)
(as intermediate in cresol condensation with hexamethylenetetramine and urea)

RN 22714-52-9 CAPLUS
CN Urea, 1,1'-[(2-hydroxy-5-methyl-m-phenylene)dimethylene]di- (8CI) (CA INDEX NAME)



L25 ANSWER 77 OF 79 CAPLUS COPYRIGHT 2001 ACS

GI For diagram(s), see printed CA Issue.

AB Compds. of the general formula I where R is an arylene or alkarylene bridging group and R' is H or R'R' = benzo, red dyes for acrylic fibers, are prepd. by coupling diazotized 2-aminothiazole (II) or 2-aminobenzothiazole (III) with the appropriate bis-indole coupler (IV) and quaternizing the resulting disazo compd. with Me2SO4. IV are prepd. by reacting 1-(3-aminopropyl)-2-phenylindole (V) with the appropriate diisocyanate. Thus, a soln. of 3.75 g. (4-OCNC6H4)2CH2 in 20 ml. dry C6H6 is treated with 7.5 g. V in 25 ml. of C6H6. The mixt. is heated under reflux for 3 hr. and cooled to give 85% of IV [R = (4-C6H4)2CH2] (X) (VI). Similarly were prepd. the following IV (R, m.p., and % yield given): 4-CH2C6H4CH2 (Y), 220-2.degree., 82; 2,4-MeC6H3 (Z), 182-6.degree., 82.5. II (1 g.) is diazotized and coupled with 3.75 g. VI. The disazo compd. is isolated and heated at 95-100.degree. for 1.5 hr. with 30 ml. Me2SO4 to give I (R = X, R' = H), red on Orlon and Verel. Similarly the following red I were prepd. (R and R' given): Y, H; Z, H; X, benzo. II .fwdarw. V (1.99 g.) in 50 ml. HCONMe2 is treated with 0.87 g. 2,4-(OCN)2C6H3Me, *stirred at room temp. for 30 min. and at 95-100.degree. for 2 hrs.*, treated with 1.75 g. III .fwdarw. V, and stirred and heated for 72 hrs. The resulting disazo compd. is heated with 25 ml. Me2SO4 to give the unsym. I (R' = H on one side, R'R' = benzo on the other).

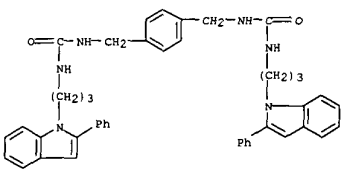
ACCESSION NUMBER: 1969:12656 CAPLUS
DOCUMENT NUMBER: 70:12656
TITLE: Cationic heterocyclic disazo dyes for *polyacrylonitrile* textiles
INVENTOR(S): Fisher, John G.; Coates, Clarence A., Jr.
PATENT ASSIGNEE(S): Eastman Kodak Co.
SOURCE: U.S., 7 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3401158	A	19680910	US 1965-502428	19651022

IT **21301-54-2P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn. of)

RN 21301-54-2 CAPLUS
CN Urea, 1,1'-(p-phenylenedimethylene)bis[3-[3-(2-phenylindol-1-yl]propyl]- (8CI) (CA INDEX NAME)

L25 ANSWER 77 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)



L25 ANSWER 78 OF 79 CAPLUS COPYRIGHT 2001 ACS

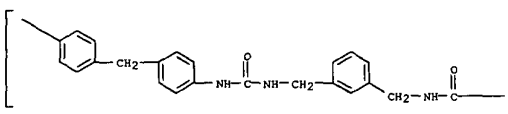
AB The flammability and thermal stability of various polyurethanes, polyureas, a polyamide, and a polyimide were detd. using D.T.A., *thermogravimetric anal., and heats of combustion. The polymers were* prepd. by polymg. 4,4'-diphenylmethane diisocyanate or polyisocyanates having av. functionalities 2.7 and 3.0 with triol 660, methylenebis(o-chloroaniline), bis(.beta.-hydroxyethyl ether) of hydroquinone, pyromellitic acid, p-xylene-.alpha.,.alpha.'-diol, m-xylene-.alpha.,.alpha.'-diamine, tetrachloro-p-xylene-.alpha.,.alpha.'-diol, and tetrachloro-m-xylene-.alpha.,.alpha.'-diamine. Rigid foams, solid polymers, and HCONMe2, AcNMe2, or Me2SO solns. were used. Thermogravimetric anal. indicated that flammability was related to formation of volatile flammable products during the early stages of decompn. Detn. of the heat evolved during D.T.A. and the heat of combustion suggested that extent and rate of the reaction governed flame *propagation. Polymer flammability depended directly on primary bond* strength, concn. of volatile decompn. products, and flammability of the volatile products. Flame-resistant polymers can be prepd. by using thermally stable or nonvolatile structural elements or those which form nonflammable decompn. products.

ACCESSION NUMBER: 1968:410856 CAPLUS
DOCUMENT NUMBER: 69:10856
TITLE: Flammability and thermal stability of isocyanate-based polymers
AUTHOR(S): Backus, J. K.; Bernard, D. L.; Darr, W. C.; Saunders, J. H.
CORPORATE SOURCE: *Res. Dep., Mobay Chem. Co., Pittsburgh, Pa., USA*
SOURCE: J. Appl. Polym. Sci. (1968), 12(5), 1053-74
CODEN: JAPNAB
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **31808-88-5 31850-66-5**
RL: USES (Uses)
(flammability and heat stability of)

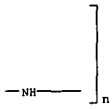
RN 31808-88-5 CAPLUS
CN Poly(iminocarbonyliminomethylene-1,3-phenylenemethyleneiminocarbonylimino-1,4-phenylenemethylene-1,4-phenylene) (9CI) (CA INDEX NAME)

PAGE 1-A



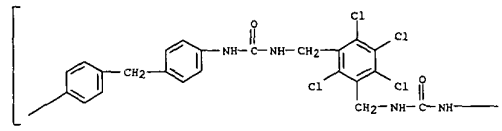
L25 ANSWER 78 OF 79 CAPLUS COPYRIGHT 2001 ACS (Continued)

PAGE 1-B



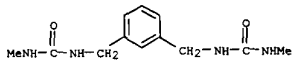
RN 31850-66-5 CAPLUS
CN Poly{ureylenemethylene(2,4,5,6-tetrachloro-m-phenylene)methyleneureylene-p-phenylenemethylene-p-phenylene} (8CI) (CA INDEX NAME)

PAGE 1-A

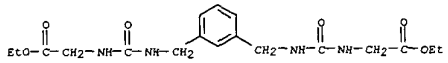


PAGE 1-B

L25 ANSWER 79 OF 79 CAPLUS COPYRIGHT 2001 ACS
GI For diagram(s), see printed CA Issue.
AB Analogs of (I) [R = R1 = MeNHCO2CH2 (II)] were prepd. as potential antiinflammatory agents. These compds. included simple substituted carbamates and thiocarbamates, acyl and sulfonyl carbamates, thiol- and dithiocarbamates, pyridineethanol carbamates, pyridinepropanol carbamates and their .alpha.-substituted derivs., ureas, and reverse carbamates. III-VII and their derivs. were also synthesized as possible bioisosteres of II. In all, 127 derivs. (excluding intermediates) were prepd. by standard procedures. All the compds. listed were inactive orally in rats using the carrageenininduced edema test; of selected derivs. tested for inhibition of the reversed passive cutaneous anaphylactic reaction in guinea pigs, only I (R = R1 = PrCONHCO2CH2), I [R = R1 = MeNHC(O)SCH2], and VI showed activity.
ACCESSION NUMBER: 1967:443658 CAPLUS
DOCUMENT NUMBER: 67:43658
TITLE: Analogs of 2,6-pyridinedimethanol bis(N-methylcarbamate)
AUTHOR(S): Juby, Peter F.; et al
CORPORATE SOURCE: Div. of Bristol-Myers Co., Bristol Lab., Syracuse, N. Y., USA
SOURCE: J. Med. Chem. (1967), 10(3), 491-5
CODEN: JMCMAR
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **13430-21-2P 16578-50-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 13430-21-2 CAPLUS
CN Urea, N,N''-[1,3-phenylenebis(methylene)]bis[N'-methyl- (9CI) (CA INDEX NAME)



RN 16578-50-0 CAPLUS
CN Glycine, N,N'-[m-phenylenebis(methyleneiminocarbonyl)]di-, diethyl ester (8CI) (CA INDEX NAME)



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FULL ESTIMATED COST	336.18	1437.83

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-46.45	-67.04

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